

## LIST OF PUBLICATIONS (LAST FIVE YEARS)

DEPARTMENT OF BIOTECHNOLOGY

### List of Publications (2009)

| S. No. | Title   | Author(s)  | Journal   | National/ Internatl. | Citation index | Impact factor | H index |
|--------|---|--|---|----------------------|----------------|---------------|---------|
| 1      | Effect of Multiwalled carbon nanotubes on viability and superoxide dismutase expression in human wound pathogens  | Sanjai Saxena, Charu Gomber and K K Raina                              | International Journal of Nanoscience 8(4-5): 415-423 (2009)               | Internatl.           | ---            | ---           | 12      |
| 2      | Assessment of Phytotoxic spent broth and spores of <i>Alternaria alternata</i> (LC#508) as a formulation with enhanced mycoherbicidal activity to control <i>Lantana camara</i> | Sanjai Saxena and Akhilesh K. Pandey                                   | Journal of Plant Protection Research 49(1):33-37 (2009)                   | Internatl.           | ---            | ---           | 6       |
| 3      | Lactose mother liquor as a novel and cheap medium for mass production of mycoherbicide <i>Alternaria alternata</i>  | Sanjai Saxena and Mukesh Kumar   | Journal of Basic and Applied Mycology 8(I&II):01-07 (2009)                | Internatl.           | ---            | ---           | ---     |
| 4      | Fungal biotransformation of cannabinoids: Potential for new effective drugs.  | Sanjai Saxena  | Curr. Opin. Drug Discovery Development 12(2): 305-312 (2009)              | Internatl.           | 02             | 5.12          | 43      |
| 5      | Fatigue Is Not Associated with Impaired Function of Regulatory T Cells in Untreated Patients with Multiple Sclerosis  | Yaldizli O., Kumar M., Vago S., Kreuzfelder E., Limmroth V., Putzki N. | European Neurology 62(6):321-326 (2009)                                   | Internatl.           | 1              | 1.5           | 52      |
| 6      | Effective Removal of <i>Cryptosporidium</i> by a Novel Bioflocculant  | Ghosh, M. Pathak, S. and Ganguli, A.                                   | Water Environ. Res, (81), 123-128 (2009)                                  | Internatl.           | SCI            | 0.89          | 44      |
| 7      | Application of a novel biopolymer for removal of <i>Salmonella</i> from poultry waste water.  | <a href="#">Ghosh M, Ganguli A, Pathak S.</a>                          | <i>Env. Technol</i> , (30), 337-344 (2009)                                | Internatl.           | SCI            | 1.606         | 44      |
| 8      | Decolorization of anaerobically digested molasses spent wash by <i>Pseudomonas putida</i>   | Ghosh, M. Ganguli, A, and Tripathi, AK.                                | App. Biochemistry & Microbiol, (41), 113-119 (2009)                       | Internatl.           | SCI            | 0.689         | 17      |
| 9      | Biopolymer based intervention for <i>Salmonella</i> in water  | Ghosh, M. and Pathak S.  | Indian Journal of Biotechnology Vol 8, 298-303 (2009)                     | National             | SCI            | 0.477         | 13      |
| 10     | Evaluation of sanitizing efficacy of acetic acid on <i>piper beetle</i> leaves and its effect on antioxidant properties.  | Singla, R. Ghosh, M. Ganguli, A, and Sohal, S.                         | International Journal of Food Science and Nutrition, (31), 221-227 (2009) | Internatl.           | SCI            | 1.257         | 41      |

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|--------|---|--|---|----------------------|----------------|---------------|---------|
| 11     | Phenolics and antioxidant activity of a ready-to-eat snack food prepared from the edible mushroom ( <i>Agaricus bisporous</i> ).                                    | Singla, R, Ghosh, M. and Ganguli, A.   | Nutrition and Food Science, 39(3), 227-235 (2009)                       | Internatl.           | SCI            | 1.257         | 8       |
| 12     | Decolourization of Direct Red 28 by mixed bacterial culture in an upflow immobilized reactor.   | Bella Devassy Tony, Goyal, D and Khanna, S.  | Journal of Industrial Microbiology and Biotechnology 33: 433-438 (2009) | Internatl.           | 10             | 2.725         | 62      |
| 13     | Decolourization of textile azo dyes by aerobic bacterial consortium.  | Bella Devassy Tony, Goyal, D and Khanna, S.  | International Biodeterioration and Biodegradation. 63: 462-469 (2009)   | Internatl.           | SCI            | 2.442         | 51      |
| 14     | Determining the substrate specificity and functional characterization of full length recombinant cellulase (Lic26A-Cel5-CBM11) of <i>Clostridium thermocellum</i> . | Deka,D., Ahmad, S., Akhtar, N., Majumder, A., Jawed, M., Goyal, D., Carlos M.G.A. Fontes and Goyal., A.. | Journal of Applied Biosciences and Biotechnology 5(1). (2009)           | National             | ---            | ---           | ---     |
| 15     | Comparative biosorption of Pb by live algal consortium and immobilized dead biomass from aqueous solution.  | Rajiv Kumar, Goyal, D.   | Indian Journal of Experimental Biology 46:690-694 (2009)                | National             | 5              | 1.195         | 44      |
| 16     | Chromium (III) removal from aqueous solution by microbial waste from fermentation industry.   | Indu Sharma and Dinesh Goyal   | Indian Journal of Environmental Protection 29 (3): 224-230 (2009)       | National             | ---            | ---           | ---     |
| 17     | Potentiometric Zn biosensor based on bacterial cells.   | Datta, M., Mittal, S., Goyal, D.   | Asian Journal of Biotechnology. 1(2):67-73 (2009)                       | Internatl.           | ---            | ---           | ---     |
| 18     | Chromium (III) removal from tannery effluent by <i>Streptomyces</i> sp. (MB2) waste biomass of fermentation process.  | Indu Sharma and Dinesh Goyal   | International Journal of Integrative Biology 6 (3): 148-153 (2009)      | Internatl.           | 3              | ----          | 6       |
| 19     | Sensor based on polyvinyl chloride immobilized <i>Pseudomonas striata</i> cells as metal-ionophore.   | MDatta, S Mittal and Dinesh Goyal  | Indian Journal of Science and Technology 2(7): 46-50 (2009)             | National             | ---            | ---           | 3       |
| 20     | Biochemical characterization of a recombinant derivative (CfLic26A-Cel5) of a cellulosomal cellulase from <i>Clostridium thermocellum</i> .                         | Ahmad, S., Deka,D., Jawed, M., Goyal, D., Carlos M.G.A. Fontes and Goyal., A..                           | Current Trends in Biotechnology and Pharmacy. 3(1):633-640 (2009)       | National             | 1              | ---           | 5       |
| 21     | Removal of chromium (III) from aqueous solution by pretreated microbial waste biomass.  | Indu Sharma and Dinesh Goyal.  | Res. J. of Chemistry and Environment 13(2): 29-33 (2009)                | National             | SCI            | 0.636         | ---     |

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|--------|---|------------------------------|---|----------------------|----------------|---------------|---------|
| 22     | Kinetic Modelling: Chromium (III) removal from aqueous solution by microbial waste biomass.   | Indu Sharma and Dinesh Goyal | Journal of Scientific and Industrial Research. 68: 640-646 (2009) | National             | 8              | 0.505         | 25      |
| 23     | Impact of addition of soil amendments and microbial inoculants on nursery growth of <i>Populus deltoides</i> and <i>Toona ciliata</i> . | Aggarwal, H and Goyal D.     | Agroforestry Systems. 75: 167-173 (2009)                          | Internatl.           | 1              | 1.66          | 44      |

#### List of Publications (2010)

| S. No. | Title   | Author(s)   | Journal  | Natl/ Internatl. | Citation index | Impact factor | H index |
|--------|---|---|--|------------------|----------------|---------------|---------|
| 1      | Identification and characterization of cellular locus of limonin biotransforming enzyme in <i>Pseudomonas putida</i> in the         | Verma, J., Ghosh, M. Singh, S, Srivastava, P.K                            | Journal of Food Science & Technology 45: 319-326 (2010)      | Internatl.       | SCI            | 1.123         | 19      |
| 2      | Aldehyde dehydrogenase and Stem Cell Marker Expression in Cells from Human Peripheral Blood Apheresis Samples                       | Sharma Siddharth, Shariatmadar Sherry; Krishan Awtar.                     | Cytometry B (ClinicalCytometry), 2010; 78B: 123-129 (2010)   | Internatl.       | SCI            | 2.23          | 32      |
| 3      | ALDH+/CD44+/CD24- Expression in Cells from Body Cavity Fluids.  | Krishan Awtar, Deepti Sharma, Sharma Siddharth Ron Hamelik, Parvin Ganjei | Cytometry B, (Clinica Cytometry) 78B, 176-182 (2010)         | Internatl.       | SCI            | 2.23          | 32      |
| 4      | Pentachlorophenol degradation by <i>Bacillus</i> species isolated from pulp and paper industry                                      | Santosh, K. Chakrabarthy, P and Reddy, M.S.                               | Biodegradation 22: 63-69 (2010)                              | Internatl.       | SCI            | 2.173         | 50      |
| 5      | Characterization of pentachlorophenol degrading <i>Bacillus</i> spp. from secondary sludge of pulp and paper Industry               | Santosh Kr. Karn, S.K. Chakrabarty and M. S. Reddy.                       | Int. J. Biodeterioration & Biodegradation 64: 609-613 (2010) | Internatl.       | SCI            | 2.059         | 51      |
| 6      | Pentachlorophenol degradation by <i>Pseudomonas stutzeri</i> CL7 in the secondary sludge of pulp and paper mill. clinical isolates. | Santosh Kr. Karn, S.K. Chakrabarty and M.S. Reddy                         | J. Environmental Sciences 22: 1608-1612 (2010)               | Internatl.       | SCI            | 1.399         | 29      |
| 7      | Isolation and characterization of urease producing and calcifying bacteria from cement.   | Achal, V, Mukherjee, A and Reddy, M.S.                                    | J Microbiology Biotechnology 20: 1571-1576 (2010)            | Internatl.       | SCI            | 2.06          | 29      |
| 8      | Influence of arbuscular mycorrhizal fungi ..... grown in alkaline bauxite processing residue  | A. Giridhar Babu and M. S. Reddy  | Environmental Pollution 159: 25-29 (2010)                    | Internatl.       | SCI            | 3.73          | 108     |

| S. No. | Title   | Author(s)  | Journal   | Natl/ Internatl. | Citation index | Impact factor | H index |
|--------|---|--|---|------------------|----------------|---------------|---------|
| 9      | Biocalcification by <i>Sporosarcina pasteurii</i> using corn steep liquor as nutrient source  | V. Achal, A. Mukherjee, M. S. Reddy.   | Industrial Biotechnology 6: 170-174 (2010)                                  | Internatl.       | SCI            | 0.5           | 11      |
| 10     | Microbial Concrete: A way to enhance the Durability of Building Structures  | V. Achal; A. Mukherjee, M. S. Reddy  | J. Materials for Civil Eng. 23: 730-734 (2010)                              | Internatl.       | SCI            | 0.959         | 40      |
| 11     | In search of a sustainable binder in Building materials   | A. Mukherjee, V. Achal and M. S. Reddy.  | Annals of Ind Acad of Eng. VII: 41-51 (2010)                                | Internatl.       | ---            | ---           | ---     |
| 12     | Perception and attitudes of Indian consumers to probiotic foods<br>1.   | Kumar, M., Goyal, R, Khandal, H, Khilwani, B, Gupta, S, Lomash, H, Ghosh, M. and Ganguli, A. | International Journal of Prebiotics & Probiotics (2010)                     | Internatl.       | ---            | ---           | ---     |
| 13     | Shoot organogenesis in elite clones of <i>Eucalyptus tereticornis</i> .   | D. Aggarwal , A. Kumar and M. S. Reddy   | Plant Cell Tissue Organ Cult 102:45-52 (2010)                               | Internatl.       | 16             | 3.633         | 46      |
| 14     | Factors affecting <i>in vitro</i> propagation and field establishment of <i>Chlorophytum borivillanum</i>   | Kumar, A, Aggarwal D, Gupta P, Reddy MS  | Biologia Plantarum 54(4) : 1- 8 (2010)                                      | Internatl.       | SCI            | 1.692         | ---     |
| 15     | Evaluation of <i>Alternaria alternata</i> ITCC4896 for use as mycoherbicide to control <i>Parthenium hysterophorus</i>                                    | Sanjai Saxena and Mukesh Kumar   | Archives of Phytopathology and Plant Protection, 43(12): 1160 - 1164 (2010) | Internatl.       | ---            | ---           | 8       |
| 16     | Superoxide Dismutase and extracellular Protease expression in clinical isolates of <i>Staphylococcus aureus</i> : A tool for antimicrobial drug discovery | Sanjai Saxena and Charu Gomber   | Molecular Cellular Biochemistry 341(1-2): 217-223 (2010)                    | Internatl.       | 05             | 2.329         | 85      |
| 17     | Surmounting antimicrobial resistance in the Millennium Superbug: <i>S. aureus</i>   | Sanjai Saxena and Charu Gomber   | Cent European J of Med 5(1): 12-29 (2010)                                   | Internatl.       | 12             | 0.262         | 7       |
| 18     | Antimicrobial activity of <i>Callistemon rigidus</i> R.Br. leaf extract against multidrug resistant gram-negative   | Sanjai Saxena and Charu Gomber   | Int Journal of Life Science and Technology 3(3): 34-38 (2010)               | Internatl.       | ---            | ---           | ---     |
| 19     | Effect of Natalizumab on circulating B cells, T regulatory cells and Natural killer cells.  | Putzki N, Baranwal MK, Tettenborn B, Limmroth V, Kreuzfelder E                               | European Neurology, 63(5):311-7 (2010)                                      | Internatl.       | 24             | 1.5           | 52      |

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|--------|--|---|--|------------------|----------------|---------------|---------|
| 20     | Direct rhizogenesis from leaf explants of an important medicinal plant ( <i>Tylophora indica</i> (burm.f.) Merrill | Spatia, R and Anand .M                                | Annals of Biology 26(1) 61-64 (2010)                     | National         | ---            | ---           | ---     |
| 21     | Application of Microbial Exopolymers for removal of protozoan parasites from potable water                         | Ghosh, M. and Pathak, S.                              | Research Journal of Biotechnology. 5(1), 58-62 (2010)    | Internatl.       | SCI            | 0.294         | ---     |
| 22     | Removal of Cr (VI) from aqueous solution by fungal biomass   | S. S Ahluwalia and Dinesh Goyal                       | Engineering in Life Sciences. 10 (5) 480-485 (2010)      | Internatl.       | 6              | 1.633         | 22      |
| 23     | Effect of fly ash application on some physical properties and microbial activities                                 | Kohli, S Jala, Goyal D.                               | Acta Agrophysica. 16(2) 327-335 (2010)                   | Internatl.       | 1              | ---           | ---     |
| 24     | Adsorption Kinetics: Bioremoval of trivalent chromium from tannery effluent by <i>Aspergillus</i> sp. Biomass.     | Indu Sharma and Dinesh Goyal                          | Research Journal of Env Sciences. 4(1) 1-12 (2010)       | National         | 8              | ---           | ---     |
| 25     | Biosorption of Pb <sup>2+</sup> and Zn <sup>2+</sup> by non-living biomass of <i>Spirulina</i> sp.                 | Aneja RK., Choudhary, G., Ahluwalia, SS and Goyal, D. | Indian Journal of Microbiology 50 (4): 438-442 (2010)    | National         | 7              | 0.457         | 17      |
| 26     | Waste water treatment and metal (Pb, Zn) removal by microalgal based stabilization pond system                     | Rajiv Kumar, Dinesh Goyal                             | Indian Journal of Microbiology 50 (1): 34-40 (2010)      | National         | 3              | 0.457         | 17      |
| 27     | Effect of ESP fly ash on physical properties of ultisol of Orissa.   | Sudha Jala Kohli and Goyal D.                         | Indian Journal of Env Protection 30 (8): 648-652 (2010)  | National         | ---            | ---           | 11      |
| 28     | Effect of fly ash on Lac Z +ve bacteria in soil.   | Sudha Jala Kohli and Goyal D.                         | Indian Journal of Env Protection 30 (11): 940-942 (2010) | National         | ---            | ---           | 11      |

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| S. No. | Title   | Author(s)   | Journal   | National/ Internatl. | Citation index | Impact factor | H index |
|--------|---|---|---|----------------------|----------------|---------------|---------|
| 1      | Evaluation of clonal fidelity of in vitro raised plants of <i>Guadua angustifolia</i> using DNA-based markers                           | Harleen k Nadha, Rahul kumar, Ram K Sharma, M Anand and Anil Sood | Journal of Medicinal Plants Research 5(23) 5636-5641 (2011) | Internatl.           | ---            | ---           | ---     |
| 2      | Optimization of potting mixture for hardening of in vitro raised plants of <i>Tylophora indica</i> to ensure higher survival percentage | Harmanjit Kaur, Manju Anand and Dinesh Goyal                      | Int j of Medicinal and Aromatic Plants 1(2):83- 88 (2011)   | Internatl.           | ---            | ---           | ---     |

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|----|---|--|--|------------|-----|-------|----|
| 3  | Combined organic acid and ozone inactivates <i>Shigella</i> spp. in sprouts but retains antioxidant activity.                 | Richu Singla, Ghosh, M. and Ganguli, A.  | Food Control. 22(7):1032-1039. (2011)                        | Internatl. | SCI | 3.006 | 49 |
| 4  | Diversity of arbuscular mycorrhizal fungi----- ecological restoration   | Babu AG, Reddy MS  | Current Microbiology 63: 273-280 (2011)                      | Internatl. | SCI | 1.520 | 52 |
| 5  | Microbial concrete: way to enhance the durability of building structures.   | Achal V, Mukherjee A, Reddy MS.  | Journal of Materials in Civil Engg 23: 730-734 (2011)        | Internatl. | SCI | 0.733 | 40 |
| 6  | Nutritional composition ..... mushrooms of northwestern Himalayas   | Kumari D, Reddy MS, Upadhyay RC  | Food Science and Technology International 17: 557-567 (2011) | Internatl. | SCI | 0.907 | 31 |
| 7  | Agni's fungi: heat-resistant spores from the Western Ghats, southern India  | T. S. Suryanarayanan, M. B. Govindarajulu, E. Thirumalai, M. S. Reddy, N. P. Money | Fungal Biology 115: 833-838 (2011)                           | Internatl. | SCI | 2.082 | 63 |
| 8  | <i>Agrobacterium tumefaciens</i> mediated genetic transformation of selected elite clone(s) of <i>Eucalyptus tereticornis</i> | Aggarwal D, Kumar A, M.S. Reddy  | Acta Physiol Plantarum 33:1603-1611 (2011)                   | Internatl. | 12  | 1.305 | 24 |
| 9  | Antioxidant activity ..... from North-Western Himalaya, India   | Deepika Kumari, R. C. Upadhyay, M.S. Reddy   | Int. J. Agric. Biol, 13: 415-418 (2011)                      | Internatl. | SCI | 0.597 | 12 |
| 10 | Effect of inoculation with phosphate solubilizing fungus ..... rock phosphate in alkaline soils                               | Singh H, M.S. Reddy  | European Journal of Soil Biology 47: 30-34 (2011)            | Internatl. | SCI | 1.838 | 35 |
| 11 | Diversity of Arbuscular mycorrhizal fungi ..... in ecological restoration   | A. Giridhar Babu, M.S. Reddy   | Current Microbiology 63: 273-280 (2011)                      | Internatl. | SCI | 1.520 | 52 |
| 12 | <i>Aspergillus tubingensis</i> ..... bermudagrass in bauxite residue  | A. Giridhar Babu and M. S. Reddy   | Bioremediation 15: 157-164 (2011)                            | Internatl. | SCI | 0.40  | 24 |
| 13 | Effect of calcifying bacteria on permeation properties of concrete structures   | Achal, V, Mukherjee, A and Reddy, M.S.   | J. Indus Microbiol & Biotech. 38: 1229-1234 (2011)           | Internatl. | SCI | 2.321 | 62 |
| 14 | Molecular characterization of <i>Morchella</i> species from the Western Himalayan region of India                             | Harpreet Kaur Kanwal, Karan Acharya, G. Ramesh and M. S. Reddy                     | Current Microbiol 62: 1245-1252 (2011)                       | Internatl. | SCI | 1.520 | 52 |
| 15 | Effect of carbon, nitrogen sources ----- production by <i>Morchella crassipes</i> .   | Harpreet Kaur Kanwal, and M. S. Reddy  | World J. Microbiol Biotechnol 27: 687-691 (2011)             | Internatl. | SCI | 1.262 | 44 |

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|----|---|--|--|------------|-----|-------|-----|
| 16 | Dual inoculation of arbuscular mycorrhizal and phosphate solubilizing .... in fly ash ponds   | A. Giridhar Babu and M. S.Reddy.                                       | Water, Air and Soil Pollution 219: 3-10 (2011)                 | Internatl. | SCI | 1.748 | 64  |
| 17 | <i>Cantharellus pseudoformosus</i> , a new species associated with <i>Cedrusdeodara</i> from India.   | Deepika, K., Upadhyay, R.C. and Reddy, M.S.                            | Mycoscience 52: 147-151 (2011)                                 | Internatl. | SCI | 1.165 | 27  |
| 18 | Factors affecting <i>in vitro</i> cormlet formation in <i>Gdiolus hybridus</i> Hort. and evaluation of field performance of cormlets                                | Kumar A, Palni LMS, Sood A   | <i>Acta Physiol Plantarum</i> 33: 509-515 (2011)               | Internatl. | SCI | 1.305 | --- |
| 19 | Pyrene degradation by <i>Bacillus</i> sp. Isolated from Coal tar Contaminated Soil.   | G. P. Khanna, Dinesh Goyal and S Khanna                                | Polycyclic Aromatic Compounds 31 (1): 1-15 (2011)              | Internatl. | 4   | 1.044 | 23  |
| 20 | Pyrene Biodegradation by <i>Bacillus</i> sp. Isolated from Coal tar Contaminated Soil.  | G. P. Khanna, Dinesh Goyal and S Khanna                                | Bioremediation Journal 15 (1): 12-25 (2011)                    | Internatl. | 1   | 0.4   | 24  |
| 21 | Establishment of an efficient protocol for micropropagation from stem explants of <i>Tylophora indica</i>   | Harmanjit Kaur, Manju Anand, Dinesh Goyal.                             | African J of Biotech 10: 6928-6932 (2011)                      | Internatl. | SCI | 0.57  | 35  |
| 22 | Extraction of tylophorine from <i>in vitro</i> raised plants of <i>Tylophora indica</i> .   | Kajjal, H., Anand, M., Goyal, D  | J of Medi Plants Research 5(5): 729-734 (2011)                 | Internatl. | 2   | 0.60  | 15  |
| 23 | Enhancement of cellulase activity from a new strain of <i>Bacillus subtilis</i> by medium optimization and analysis with various cellulosic substrates.             | D. Deka, P. Bhargavi, A. Sharma, Dinesh Goyal, M. Jawed and Arun Goyal | Enzyme Research Article ID 151656, doi:10.4061/2011/151656     | Internatl. | 17  | ---   | 6   |
| 24 | Bioconversion of AgriculturalWaste to Ethanol by SSF Using Recombinant Cellulase from <i>Clostridium thermocellum</i>   | Ruchi Mutreja, Debasish Das, Dinesh Goyal and Arun Goyal               | Enzyme Research Article ID 340279, doi:10.4061/2011/340279     | Internatl. | 9   | ---   | 6   |
| 25 | Establishment of reproducible, efficient protocol for micropropagation of <i>Tylophora indica</i> and extraction of tylophorine from <i>in vitro</i> raised plants. | Kajjal, H., Anand, M., Goyal, D  | Int Journal of Biotechnol and Bioengineering 2: 290-306 (2011) | Internatl. | --- | ---   | --- |

▪ List of Publications (2012)

| S. No. | Title  | Author(s)   | Journal  | National/ Internatl. | Citation index | Impact factor | H index |
|--------|--|---|--|----------------------|----------------|---------------|---------|
| 1      | Anti-staphylococcal potential of endophytic fungi from <i>Aegle marmelos</i> Correa ex Roxb. (Rutaceae).   | Vinit Meshram, Sanjai Saxena and Neha Kapoor                              | Journal of Pure & Applied Microbiology 6(4): 1859-1868 (2012)    | Internatl.           | SCI            | 0.0546        | ---     |
| 2      | Direct production of L (+) lactic acid in continuous and fully membrane - integrated hybrid system under non- neutralizing conditions                                      | P. Dey, P. Pal  | Journal of Membrane Science 389:355-362 (2012)                   | Internatl.           | SCI            | 4.093         | 122     |
| 3      | Separation of lactic acid from fermentation broth by cross flow nanofiltration: Membrane characterization and transport modeling.  | Pinaki Dey, Lassi Linnanen, Parimal Pal                                   | Desalination, Elsevier 288 47-57. (2012)                         | Internatl.           | SCI            | 3.041         | 73      |
| 4      | Techno-Economic analysis of a membrane integrated bioreactor system for production of lactic acid from sugar cane juice  | Joya Sikder, Mousumi Roy, Pinaki Dey and Parimal Pal                      | Biochemical Engineering Journal 63 81-87. (2012)                 | Internatl.           | SCI            | 2.645         | 61      |
| 5      | Fermentative Lactic acid production from a renewable carbon ----without alkali addition: a membrane based green approach   | P.Dey, J.Sikder, S.Roy and P.Pal  | Clean Technology And Environmental Policy, 14(5) 150-159 (2012)  | Internatl.           | SCI            | 1.827         | 15      |
| 6      | Identification and elimination of bacterial contamination during <i>in vitro</i> propagation of <i>Guadua angustifolia</i> Kunth   | Harleen Kaur Nadha, R. Salwan, R. C. Kasana, Manju Anand and A Sood       | Pharmacognosy Magazine, 8(30) 93-97 (2012)                       | Internatl.           | SCI            | 1.525         | ---     |
| 7      | A micropropagation system for <i>Tylophora indica</i> and extraction and purification of tylophorine from cell cultures and <i>in vitro</i> regenerated plants             | Manju Anand, Harmanjit Kaur and Dinesh Goyal                              | Environmental, Biomedical and Biotechnology 41, 14-172012        | Internatl.           | ---            | ---           | ---     |
| 8      | Molecular cloning and characterization of granule-bound starch synthase I (GBSSI) alleles from potato and sequence analysis for detection of <i>cis</i> -regulatory motifs | Anshu Bansal, Vijay Kumari, Dhakshi Taneja, Rupinder Sayal, Niranjana Das | Plant Cell, Tissue and Organ Culture (PCTOC) 109: 247-261 (2012) | Internatl.           | SCI            | 3.633         | ---     |
| 9      | Rapid photokilling of gram-negative <i>Escherichia coli</i> bacteria by platinum dispersed titania nanocomposite films   | Bonamali Pal, Isha Singh, Kunal Angrish, Raghavendra Aminedi, N. Das      | Materials Chemistry and Physics 136: 21-27 (2012)                | Internatl.           | SCI            | 2.072         | ---     |
| 10     | Simplified extraction of good quality genomic DNA from a variety of plant materials  | V Kumari, Anshu Bansal, R Aminedi, D Taneja, N. Das                       | African Journal of Biotechnology 11(24): 6420-6427 (2012)        | Internatl.           | SCI            | 0.570         | ---     |



|    |  |   |   |            |         |       |     |
|----|--|---|---|------------|---------|-------|-----|
| 11 | Characterization of cellulase producing <i>Bacillus</i> sp. for effective degradation of leaf litter biomass.  | Nadeem Akhtar, A Sharma, D Deka, M. Jawed, D Goyal, Arun Goyal                                    | Env Progress and Sustainable Energy<br>DOI:10.1002/EP.11726 (2012)          | Internatl. | 2       | 0.865 | 32  |
| 12 | Bioethanol production involving recombinant <i>C. thermocellum</i> hydrolytic hemicellulase and fermentative microbes.   | Saprativ P. Das, R Ravindran, Shadab Ahmed, D Das, Dinesh Goyal, Carlos M.G.A. Fontes, Arun Goyal | Applied Biochemistry and Biotechnology 167: 1475-1488 (2012)                | Internatl. | 14      | 1.893 | 56  |
| 13 | Characterization of pyrene utilizing <i>Bacillus</i> spp. From crude oil contaminated soil   | G. Purnima Khanna, D Goyal and S Khanna.  | Brazilian Journal of Microbiology 606-617 (2012).                           | Internatl. | SCI     | 0.99  | 27  |
| 14 | Development of an amperometric biosensor for detection of limonin levels in kinnow-mandarin juices   | Puri, R., Malik, M. and Ghosh, M.   | Annals of Microbiol 62:1301-1309. (2012)                                    | Internatl. | SCI     | 1.549 | 18  |
| 15 | Modeling of permeabilization process in <i>Pseudomonas putida</i> G7 - ---- Limonin bioconversion.   | Malik, M., Ganguli, A. and Ghosh, M.  | Applied Microbiology and Biotechnology. 95:223-231 (2012)                   | Internatl. | SCI     | 3.689 | 115 |
| 16 | Enhancement of bioconversion efficiency of limonin by <i>Pseudomonas putida</i> G7   | Malik, M., Ganguli, A. and Ghosh, M.  | Int J of Food Science and Nutrition 63(1), 59-65 (2012)                     | Internatl. | SCI     | 1.257 | 41  |
| 17 | Statistical optimization of process parameters influencing ---- limonin by <i>Pseudomonas putida</i> G7  | Malik, M., Ganguli, A. and Ghosh, M.  | Research Journal of Biotechnology. Volume 7 (2012)                          | Internatl. | SCI     | 0.294 | --- |
| 18 | Immobilization parameters statistically optimized for whole cells of <i>P. putida</i> G7 to enhance limonin biotransformation  | Malik, M. and Ghosh, M.   | Journal of Advanced Laboratory Research in Biology 3 (2012)                 | National   | NON-SCI | ---   | --- |
| 19 | Industrial whey utilization as a medium ---biphasic growth and bacteriocin production by probiotic <i>Lactobacillus casei</i> LA-1   | Kumar, M., Jain, A., Ghosh, M. and Ganguli, A.  | Probiotic and Antimicrobial Protein 4 :198-207 (2012)                       | Internatl. | SCI     | ---   | 5   |
| 20 | Characterization and Optimization of an Anti- <i>Aeromonas</i> Bacteriocin Produced by <i>Lactococcus lactis</i> Isolated from Hukuti Maas, an Indigenous Fermented Fish Product | Kumar, M., Jain, A., Ghosh, M. and Ganguli, A.  | Journal of Food Processing and Preservation. DOI: 10.1111/jfpp.12048 (2012) | Internatl. | SCI     | 0.45  | 21  |
| 21 | Statistical optimization of physical parameters for enhanced bacteriocin production by <i>L. casei</i>   | Kumar, M., Jain, A., Ghosh, M. and Ganguli, A.  | Biotechnology and Bioprocess Engg. 17: 606-616 (2012)                       | Internatl. | SCI     | 1.277 | 24  |
| 22 | Survival of probiotic strains in non-dairy indian spice condiment exhibiting cholesterol reducing properties   | Kumar, M., Singla, R., Singh, A., Ghosh, M. and Ganguli, A.                                       | <a href="#">Food Science and Biotechnology</a> 21, 1309-1315 (2012)         | Internatl. | SCI     | 0.695 | 13  |
| 23 | Mitogenic response and probiotic characteristics of lactic acid bacteria isolated from indigenously pickled vegetables and fermented beverages                                   | Kumar, M., Ghosh, M. and Ganguli, A.  | World Journal of Microbiology Biotechnology. 28:703-711 (2012)              | Internatl. | SCI     | 1.262 | 44  |

|    |   |   |   |            |     |       |     |
|----|---|---|---|------------|-----|-------|-----|
| 24 | Potential application of an anti-aeromonas bacteriocin of <i>lactococcus lactis</i> ssp. <i>lactis</i> in the preservation of vegetable salad | Kumar, M., Jain, A., Ghosh, M. and Ganguli, A.                  | Journal of Food Safety. 32:369-378. (2012)                                | Internatl. | SCI | 0.82  | 23  |
| 25 | Improvement in strength properties of ash bricks by bacterial calcite   | Dhami NK, MukherjeeA, Reddy MS                                  | Ecological Engineering 39: 31-35 (2012)                                   | Internatl. | SCI | 2.958 | 61  |
| 26 | <i>Craterellus indicus</i> sp nov a new species associated with Cedrus deodara from the western Himalayas, India                              | Kumari D, Upadhayay RC, Reddy MS                                | Mycological Progress 11: 269-774 (2012)                                   | Internatl. | SCI | 1.606 | 14  |
| 27 | The effect of carbon and nitrogen sources on the formation of sclerotia in <i>Morchella spp</i>   | Harpreet Kaur M.S. Reddy  | Annals of Microbiology 62: 165-168 (2012)                                 | Internatl. | SCI | 1.549 | 18  |
| 28 | Corrosion prevention of reinforced concrete with microbial calcite precipitation.   | Achal, V, Mukherjee, A, Goyal, S and Reddy, M.S.                | ACI Materials Journal 109: 157-164 (2012)                                 | Internatl. | SCI | 1.5   | 46  |
| 29 | Improvement of wheat and maize crops by ..... with rock phosphate   | Himani Singh and M. S. Reddy                                    | Archives of Agronomy and Soil Science 58: 535-546 (2012)                  | Internatl. | --- | ---   | 9   |
| 30 | Impedance Study of Tea with Added Taste Compounds Using Conducting Polymer and Metal Electrodes   | Mopsy Dhiman, Pawan Kapur, Abhijit Ganguli, and M. L. Singla    | Journal of Nanoscience and Nanotechnology 12(9):7081-6 (2012)             | Internatl. | SCI | 1.149 | 61  |
| 31 | Impedance Study of Drinking Water and Tastants Using Conducting Polymer and Metal Electrodes.   | Mopsy Dhiman, Pawan Kapur, Abhijit Ganguli and Madan Lal Singla | International Journal of Soft Computing and Engineering 2(2): 6-11 (2012) | Internatl. | SCI | 0.52  | --- |
| 32 | Factors affecting micropropagation and acclimatization of an elite clone of <i>Eucalyptus tereticornis</i> Sm.                                | Aggarwal D, Kumar A, Sharma J, Reddy MS                         | <i>In Vitro Cellular Developmental Biology-Plants</i> 48:521-529 (2012)   | Internatl. | SCI | 1.139 | 42  |
| 33 | Degradation of 2,4,6-trichlorophenol ..... pulp and paper mill  | Karn KS, M. S. Reddy  | J. Gen. Appl. Microbiol., 58, 413-420 (2012)                              | Internatl. | SCI | 0.98  | --- |

▪ List of Publications (2013)

| S. No. | Title   | Author(s)  | Journal   | National/ Internatl. | Citation index | Impact factor | H index |
|--------|---|--|---|----------------------|----------------|---------------|---------|
| 1      | Viability of calcifying bacterial formulations in fly ash for applications in building materials  | Navdeep Kaur Dhami, Abhijit Mukherjee, M. S Reddy                          | J Ind Microbiol Biotechnol 40:1403-1413 (2013)                                | Internatl.           | SCI            | 2.321         | ---     |
| 2      | Endophytic Xylariaceae from the forests of Western Ghats, southern India: Distribution and biological activities                              | Govinda R MB, Nagamani T, Babu AG, Aggarwal A, Suryanarayanan TS, Reddy MS | Mycology: An Int J of Fungal Biology DOI: 10.1080/21501203.2013.776648 (2013) | Internatl.           | ---            | --            | ---     |
| 3      | <i>In vitro</i> anti-staphylococcal activity of alkaloids from <i>Callistemon rigidus</i> R.Br.   | Charu Gomber and Sanjai Saxena   | Journal of Pharma Tech, Res and Management 1: 47-60 (2013)                    | National             | 0              | 0             | ---     |
| 4      | A new volatile antimicrobial producing endophytic fungus <i>Muscodor kashayum</i> sp. nov.  | Meshram V, Saxena Sanjai and Neha Kapoor                                   | Mycology 4(4): 196-204 (2013)   | Internatl.           | 0              | 0             | ---     |
| 5      | Probiotic characterization of hydrolases producing <i>Lactococcus lactis</i> subsp. <i>lactis</i> isolated from pickled yam                   | Seema Bhanwar, Arashdeep Singh, Abhijit Ganguli                            | Int J Food Sci Nutr. DOI 10.3109/09637486.2013.832175 (2013)                  | Internatl.           | SCI            | 1.257         | 41      |
| 6      | Process intensification in lactic acid production by three stage membrane integrated hybrid reactor system                                    | P. Pal and P. Dey  | Chemical Engineering and Processing: Process Intensification 64: 1-9 (2013)   | Internatl.           | SCI            | 1.950         | 49      |
| 7      | Synthesis and evaluation of antibacterial activity of quaternized biopolymer from <i>K. terrigena</i>   | Khaira, G.K., Ganguli, A. and Ghosh, M.                                    | Journal of applied microbiology. doi: 10.1111/jam.12400. 2. (2013)            | Internatl.           | SCI            | 2.196         | 86      |
| 8      | Development of exobiopolymer-based biosensor for detection of phosphate in water.   | Kaur, T., Ganguli, A. and Ghosh, M.  | Water Science & Technology, 68, 12: 2619-2625 (2013)                          | Internatl.           | SCI            | 1.102         | 86      |
| 9      | Rapid inactivation of Salmonella by a quaternized biopolymeric flocculant.  | Khaira, G.K., Ganguli, A. and Ghosh, M                                     | Water Science & Tech doi:10.2166/ws.2013.169 (2013)                           | Internatl.           | SCI            | 1.102         | 86      |
| 10     | Development of a quaternized chitosan with enhanced antibacterial efficacy.   | Khaira, G.K., Kumarya, R., Chibber, M. and Ghosh M                         | Journal of water & health. 11, 3: 410-418. (2013)                             | Internatl.           | NON-SCI        | 1.22          | 29      |
| 11     | Application of biopolymer produced from metabolic engineered <i>Acinetobacter</i> sp. for the development of phosphate optoelectronic sensor. | Kaur, T., Sharma, J., Ganguli, A. and Ghosh, M                             | Composite Interfaces. doi:10.1080/15685543.2013.842116. (2013)                | Internatl.           | SCI            | 0.628         | 24      |

|    |   |  |  |            |         |       |     |
|----|---|--|--|------------|---------|-------|-----|
| 12 | Modelling of phosphate exobiopolymer interaction.   | Kaur, T. and Ghosh M.  | International Journal of Biotechnology and bioengineering research, 4:355-358.(2013) | National   | NON-SCI | ---   | --- |
| 13 | Use of Lactococcus lactis to enrich sourdough bread with $\gamma$ -aminobutyric acid.   | Bhanwar S., Bamnia M., Ghosh, M. and Ganguli, A                  | Int J of Food Science and Nutrition. 64:77-81. (2013)                                | Internatl. | SCI     | 1.257 | 41  |
| 14 | Modeling in vitro cholesterol reduction in relation to growth of probiotic Lactobacillus casei.                                       | Jain, A., Kumar, M., Ghosh, M., and Ganguli, A                   | Microbiology and immunology. 57: 100-110 (2013)                                      | Internatl. | SCI     | 1.545 | 50  |
| 15 | Alkalistable xylanase production --- Paenibacillus montaniterrae RMV1 isolated from red mud   | Amita Arora, Pankaj Krishna, Vinita Malik and M. Sudhakara Reddy | Journal of Basic Microbiology 53:1-7 (2013)  | Internatl. | SCI     | 1.198 | 29  |
| 16 | <i>Bacillus megaterium</i> mediated mineralization of calcium carbonate as --treatment of Green building materials                    | Dhami, NK, Mukherje, A, Reddy MS                                 | World j of Microbiol and Biotechnol 29: 2397-2406 (2013)                             | Internatl. | SCi     | 1.262 | 44  |
| 17 | Taxol production by an endophytic fungus <i>Fusarium redolens</i> isolated from Himalayan Yew   | Garyali S , Kumar A, Reddy MS                                    | Journal of Microbiology and Biotechnology 23: 1372-1380 (2013)                       | Internatl. | SCI     | 1.399 | 29  |
| 18 | Influence of sclerotia formation on ligninolytic enzyme production in <i>Morchella crassipes</i>                                      | Kanwal HK, Reddy MS  | J of Basic Microbiol DOI 10.1002/jobm. 201200802 (2013)                              | Internatl. | SCI     | 1.198 | 29  |
| 19 | Biogenic treatment improves the durability and remediates the cracks of concrete structures   | Achal V, Mukherjee A, Goyal S, Reddy MS                          | Construction and Building Materials 48: 1-5 (2013)                                   | Internatl. | SCi     | 2.293 | 50  |
| 20 | Phosphate solubilizing rhizobacteria from an organic farm and their influence on the growth and yield of maize ( <i>Zea mays</i> L.), | Kaur G, Reddy MS   | Journal of General and Applied Microbiology 59:295-303 (2013)                        | Internatl. | SCI     | 0.98  | 32  |
| 21 | Role of phosphate-solubilizing bacteria in --- fertility and crop productivity in organic farming                                     | Kaur G, Reddy MS   | Archives of Agronomy and Soil Science, 60: 549-564 (2013)                            | Internatl. | --      | ---   | --- |
| 22 | <i>Craterellus indicus</i> sp. nov., a new species associated with <i>Cedrus deodara</i> from the western Himalayas, India            | Kumari, D., Reddy, M.S., Upadhya, R.C.                           | Mycological Progress, DOI 10.1007/s11557-011-0788-4 (2013)                           | Internatl. | SCI     | 1.554 | 14  |
| 23 | Diversity of cultivable bacteria associated with fruiting bodies of wild Himalayan <i>Cantharellus</i> spp.                           | Kumari D, Reddy MS, Upadhyay RC                                  | Ann Microbiol. DOI 63: 845-853 (2013)  | Internatl. | SCi     | 1.549 | 18  |

|    |   |  |  |            |     |       |     |
|----|---|--|--|------------|-----|-------|-----|
| 24 | Biominalization of Calcium Carbonate ..... Calcareous Sites   | Dhami, NK, Mukherjee, A, Reddy MS  | J. Microbiol. Biotechnol 23: 707-714 (2013)  | Internatl. | SCI | 1.399 | 29  |
| 25 | Effective conversion of industrial starch waste to L-Lactic acid by <i>Lactococcus lactis</i> in dialysis sac bioreactor  | Seema Bhanwar, Arashdeep Singh, Abhijit Ganguli                              | <i>Ann Microbiol.</i> DOI 10.1007/s13213-013-0754-2. (2013)                          | Internatl. | SCI | 1.549 | 18  |
| 26 | Changes in endogenous polyamines ---cormlet formation in <i>Gladiolus hybridus</i> Hort.  | Kumar A, Palni LMS   | <i>Scientia Horticulturae</i> 162:260-264 (2013)                                     | Internatl  | SCi | 1.396 | 48  |
| 27 | In vitro seed germination of economically important edible bamboo <i>Dendrocalamus membranaceus</i> Munro   | Jasmine Brar , Manju Anand and Anil Sood                                     | Indian Journal of Experimental Biology, 51(1) 88-96 (2013)                           | National   | SCI | 1.195 | --- |
| 28 | <i>In vitro</i> Propagation of an Edible Bamboo <i>Bambusa Bambos</i> and Assessment of Clonal Fidelity through Molecular Markers                                   | Manju Anand, Jasmine Brar and Anil Sood                                      | Journal of Medical and Bioengineering 2: 257-261 (2013)                              | Internatl. | --- | ---   | --- |
| 29 | In vitro propagation of <i>Dendrocalamus asper</i> and testing the clonal fidelity using RAPD and ISSR markers  | Harleen Kaur Nadha, Rahul Kumar, Ram Kumar Sharma, Manju Anand and Anil Sood | International Journal Of Current Research 5: 2060-2067 (2013)                        | Internatl. | --- | ---   | --- |
| 30 | Antioxidant activity of native and micropropagated <i>Tylophora Indica</i> leaves   | Aruna Bhatia, Manju Anand, Rupali Singla, Arpit Sharma                       | <i>J. Nat. Prod. Plant Resour</i> 3 (1):1-7 (2013)                                   | Internatl. | --- | ---   | --- |
| 31 | Vacuolar invertases in potato ( <i>Solanum tuberosum</i> L.): molecular cloning, characterization, --- comparison, and analysis of gene expression in the cultivars | Vijay Kumari, Niranjana Das  | <i>Acta Physiologiae Plantarum</i> (APP) 35:2055-2068 (2013)                         | Internatl  | SCI | 1.305 | --- |
| 32 | Molecular cloning and sequence comparison of a cDNA encoding $\alpha$ -glucan, water dikinase (GWD) from potato ---and analysis of gene expression                  | Anshu Bansal, Niranjana Das  | <i>Journal of Plant Biochemistry and Biotechnology</i> (JPBB), 22 (4):441-452 (2013) | Internatl  | SCI | 0.414 | --- |
| 33 | Shape-dependent bactericidal activity of TiO <sub>2</sub> for the killing of Gram-negative bacteria <i>Agrobacterium tumefaciens</i> under UV torch irradiation     | Raghavendra Aminedi, Gunveen Wadhwa, Niranjana Das, Bonamali Pal             | <i>Environmental Science and Pollution Research</i> 20:6521-6530 (2013)              | Internatl  | SCI | 2.618 | --- |
| 34 | Microbial Waste Biomass for Removal of Chromium(VI) from Chrome Effluent  | Ahluwalia SS and Goyal, D  | <i>Bioremediation Journal</i> 17:3, 190-199 (2013)                                   | Internatl. | SCI | 0.4   | 24  |

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|-----|--|--|--|------------|-----|-------|-----|
| 35  | Analyzing Remediation Potential of Wastewater Through Wetland Plants: A Review   | Misha Bhatia and Goyal D   | Environmental Progress and Sustainable Energy 33 (1):9-27 (2013)   | Internatl. | SCI | 0.865 | 32  |
| 36  | Assessing the role of <i>Phragmites australis</i> in wastewater treatment through Response surface methodology   | Misha Bhatia and Goyal D.  | Environmental Engineering and Management Journal (Accepted) (2013)   | Internatl  | SCI | 0.970 | 14  |
| 37  | Plant Regeneration from Encapsulated adventitious shoot buds and somatic embryos of <i>Tylophora indica</i> -An ----- and germplasm exchange.                            | Kajjal, H., Anand, M., Goyal, D  | International Journal of Engineering Sciences Paradigms and Researches 7(1): 2319-6564 (2013)  | Internatl. | --- | ---   | --- |
| 38  | Enhanced cellulase production from <i>Bacillus subtilis</i> by optimizing physical parameters for bioethanol production  | Deka D, Das, S.P., Das, D., Jawed, M., Goyal, D., Goyal, A., and Sahoo, N. | ISRN Biotechnology Article ID 965310, 11 pages <a href="http://dx.doi.org/10.5402/2013/965310">http://dx.doi.org/10.5402/2013/965310</a> | Internatl. | --- | ---   | --- |
| 39  | Modeling and simulation of L (+) lactic acid production in continuous membrane integrated bio-reactor system under non-neutralization conditions,                        | P. Dey and P. Pal  | Biochemical Engineering Journal, Elsevier (2013)   | Internatl. | SCI | 2.645 | 61  |
| 40  | Removal of 2,4,5-trichlorophenol by bacterial isolates from the secondary sludge of pulp and paper mill  | Karn SK, Reddy MS.   | J Basic Microbiol 52: 1-6 (2013)   | Internatl. | SCI | 1.198 | --- |
| 41. | Factors affecting genetic transformation and shoot organogenesis of <i>Bacopa monnieri</i> (L.) Wettst.  | Aggarwal D, Jaiswal N, Kumar A, Reddy MS                                   | <i>Jl of Plant Biochem &amp; Biotechnol</i> DOI 10.1007/s13562-012-0166-6, 2013  | Internatl  | 1   | 0.414 | 15  |
| 42  | Plant regeneration from encapsulated adventitious shoot buds and somatic embryos of <i>Tylophora indica</i> -an effective way of mass propagation and germplasm exchange | Harmanjit kaur, Manju Anand and Dinesh Goyal                               | International journal of Engineering Sciences Paradigms and Researches, vol 7(1), 1-9, 2013  | Internatl  |     |       |     |
| 43  | In vitro propagation of <i>Dendrocalamus asper</i> and testing the clonal fidelity using RAPD and ISSR markers   | International Journal Of Current Research, Vol.5, Issue8, 2060-2067, 2013  | Harleen Kaur Nadha, Rahul Kumar, Ram Kumar Sharma, Manju Anand and Anil Sood   | Internatl  |     |       |     |

#### List of Publications (2014)

| S. No. | Title | Author(s) | Journal | National/ Internatl. | Citation index | Impact factor | H index |
|--------|-------|-----------|---------|----------------------|----------------|---------------|---------|
|--------|-------|-----------|---------|----------------------|----------------|---------------|---------|

|    |   |  |  |            |     |       |     |
|----|---|--|--|------------|-----|-------|-----|
| 1  | Diversity among wild accessions of <i>Bacopa monnieri</i> (L.) Wettst. and their morphogenetic potential                        | Bansal M, Kumar A, Reddy MS  | Acta Physiologiae Plantarum DOI 10.1007/s11738-014-1493-0 (2014)                             | Internatl. | SCI | 1.305 | 24  |
| 2  | Diversity of taxol producing endophytic fungi from Himalayan yew.   | Garyali S, Kumar A, Reddy MS   | Annals of Microbiology DOI 10.1007/s13213-013-0786-7 (2014)                                  | Internatl. | SCI | 1.549 | 18  |
| 3  | Synergistic Role of Bacterial Urease and Carbonic Anhydrase in Carbonate Mineralization   | Navdeep Kaur Dhama, Abhijit Mukherjee, M. S. Reddy                     | Applied Biochem & Biotechnol DOI 10.1007/s12010-013-0694-0 (2014)                            | Internatl. | SCI | 1.89  | 56  |
| 4  | Kinetics of Biodegradation of Polypropylene/Polylactide Blends  | Kimi Jain, Gaurav Madhu, Haripada Bhunia, Pramod K. Bajpai M. S. Reddy | J. Polym. Mater. 31: 63-76 (2014)  | Internatl. | SCI | 0.3   | 17  |
| 5  | New records of <i>Cantharellus</i> species from the north western Himalayas of India  | Kumari Deepika, M. S. Reddy, R. C. Upadhyay                            | Mycology 4:205-220 (2014)  | Internatl. | --- | ---   | --- |
| 6  | Influence of P-solubilizing bacteria on crop yield and soil fertility at multilocational sites                                  | Gurdeep Kaur, M. S. Reddy  | European Journal of Soil Biology 61: 35-40 (2014)  | Internatl. | SCI | 1.83  | 35  |
| 7  | Potential pancreatic lipase inhibitory activity of an endophytic <i>Penicillium</i> species.                                    | Mahiti Gupta, Sanjai Saxena and Dinesh Goyal                           | Journal of Enzyme Inhibitors and Medicinal Chemistry doi:10.3109/14756366.2013.871007 (2014) | Internatl. | SCI | 1.495 | 37  |
| 8  | Microbial metabolites for the development of ecofriendly agrochemicals  | Sanjai Saxena  | Allelopathy Journal 33(1): 1-23 (2014)   | Internatl. | SCI | 0.846 | 16  |
| 9  | In vitro propagation, biochemical studies and assessment of clonal fidelity through molecular markers in <i>Bambusa balcooa</i> | Brar, A Shafi, P Sood, M Anand & A Sood                                | Journal of Tropical Forest Science, 26(1)115-124 (2014)                                      | Internatl. | SCI | 0.57  | --- |
| 10 | Synergistic Role of Bacterial Urease and Carbonic Anhydrase in Carbonate Mineralization   | Navdeep Kaur Dhama, Abhijit Mukherjee, M. S. Reddy                     | Applied Biochemistry & Biotechnology DOI 10.1007/s12010-013-0694-0 (2014)                    | Internatl. | SCI | 1.89  | --- |

|    |   |  |   |                   |     |       |     |
|----|---|--|---|-------------------|-----|-------|-----|
| 11 | New records of <i>Cantharellus</i> species from the northwestern Himalayas of India   | Kumari Deepika, M. S. Reddy, R. C. Upadhyay                                      | Mycology 4:205-220 (2014)                         | Internatl.        | --- | ---   | --- |
| 12 | Influence of P-solubilizing bacteria on crop yield and soil fertility at multilocational sites  | Gurdeep Kaur, M. S. Reddy  | European Journal of Soil Biology 61: 35-40 (2014) | Internatl.        | SCI | 1.83  | --- |
| 13 | Biodegradation of leaf litter biomass by combination of <i>Bacillus</i> sp. and <i>Trichoderma reesei</i> MTCC164.  | Akhtar, N., Goyal, D., Goyal, A.   | Minerva Biotechnologica (Accepted). (2014)        | Internatl.        | SCI | 0.379 | --- |
| 14 | Influence of <i>Agrobacterium rhizogenes</i> strains on hairy root induction and bacoside A production from <i>Bacopa monnieri</i> (L.) Wettst.               | Bansal M Kumar A; M.S. Reddy   | Acta Physiol Plant 36:2793-2801                   | <b>Internatl.</b> |     | 1.524 |     |
| 15 | Differential expression of metallothioneins in response to heavy metals and their involvement in metal tolerance in the symbiotic basidiomycete <i>Laccar</i> | M.S. Reddy, Prasanna L, Marmeisse R., Fraissinet-Tachet L;                       | Microbiology 160:2235-2242                        | <b>Internatl.</b> |     | 2.835 |     |
| 16 | Biomining of 2,3,4,6-tetrachlorophenol by <i>Bacillus</i> sp. and <i>Staphylococcus</i> sp. isolated from secondary sludge of pulp and paper mill             | Karn SK; M.S. Reddy  | Bioremediation Journal 18:93-99                   | <b>Internatl.</b> |     | 0.714 |     |
| 17 | Construction of sized eukaryotic cDNA libraries using low input of total environmental metatranscriptomic   | Yadav RK, Barbi F, Ziller A, Luis P, Marmeisse R Fraissinet-Tachet L; M.S. Reddy | BMC Biotechnology 14:80                           | <b>Internatl.</b> |     | 2.590 |     |
| 18 | Alkalistable xylanase production by alkalitolerant <i>Paenibacillus montaniterrae</i> RMV1 isolated from red mud  | Arora A, Krishna P, Malik V; M.S. Reddy  | Basic Microbiology 54:1024-1029                   | <b>Internatl.</b> |     | 1.822 |     |
| 19 | Identification of key factors forenhancing competitiveness: an exploratory study of selected agri-biotech firms of Punjab in India                            | Sandeep Singh, Ravi Kiran, Dinesh Goyal  | Agricultural Economics-Czech, (Accepted) (2014).  | Internatl         |     |       |     |



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|----|--|--|--|-------------------|--|-------|--|
| 20 | Enhancement of taxol production from endophytic fungus <i>Fusarium redolens</i>  | Garyali S, Kumar A; M.S. Reddy         | Biotechnology and Bioprocess Engineering 19: 908-915                                     | <b>Internatl.</b> |  | 1.220 |  |
| 21 | Bacterial diversity of extremely alkaline bauxite residue site of alumina industrial plant using culturable bacteria and residue 16S rRNA gene clones              | Krishna P, Babu AG; M.S. Reddy         | Extremophiles 18:665-676   | <b>Internatl.</b> |  | 2.174 |  |
| 22 | Diversity and antimutagenic activity of taxol producing endophytic fungi from Himalayan yew  | Garyali S, Kumar A; M.S. Reddy         | Annals of Microbiology 64: 1413-1422   | <b>Internatl.</b> |  | 1.039 |  |
| 23 | Soil application of flyash based biofertilizers for increased crop production"   | Rajinder Kaur, Dinesh Goyal.           | Vegetos, 27 (2) (2014) 291-300   |                   |  | 0.03  |  |
| 24 | Mineralogical comparison of coal flyash with soil for use in agriculture   | Rajinder Kaur, Dinesh Goyal.           | Journal of Material Cycles and Waste Management, DOI :10.1007/s10163-014-0323-1, (2014). |                   |  | 0.831 |  |
| 25 | Mineralogical studies of coal flyash for soil application in agriculture   | Rajinder Kaur, Dinesh Goyal.           | Particulate Science and Technology, DOI :10.1080/02726351.2014.938378, (2014).           |                   |  | 0.48  |  |
| 26 | <i>Suillus triacicularis</i> sp. nov., a new species associated with <i>Pinus roxburghii</i> from northwestern Himalayas, India                                    | Verma B; M.S. Reddy                    | Phytotaxa 162: 157-164   | <b>Internatl.</b> |  | 1.376 |  |
| 27 | <i>Suillus himalayensis</i> (Basidiomycota, Agaricomycetes, Boletales), a new species associated with <i>Pinus wallichiana</i> from north western Himalayas, India | Verma B; M.S. Reddy                    | Nova Hedwigia 99: 541-550  | <b>Internatl.</b> |  | 0.989 |  |
| 28 | Viability of calcifying bacterial formulations in fly ash for applications in building materials   | Dhami NK, Mukherjee A; M.S. Reddy      | Journal of Industrial Microbiology and Biotechnology 40: 1403-1413                       | <b>Internatl.</b> |  | 2.505 |  |
| 29 | Taxol production by an endophytic fungus <i>Fusarium redolens</i> isolated from Himalayan yew  | Sanjog Garyali, Anil Kumar; M.S. Reddy | J. Microbiology and Biotechnology 23: 1372=1380  | <b>Internatl.</b> |  | 1.353 |  |

|    |   |   |  |  |  |       |  |
|----|---|---|--|--|--|-------|--|
| 30 | Analyzing Remediation Potential of Wastewater Through Wetland Plants: A Review  | Misha Bhatia, Dinesh Goyal.   | Environmental Progress and Sustainable Energy, 33 (1) (2014) 9-27.     |  |  | 1.26  |  |
| 31 | Biodiversity of cellulase producing bacteria and their application  | Nadeem Akhtar, Aanchal, Dinesh Goyal, Arun Goyal.   | Cellulose Chemistry and Technology, (Accepted) (2014).                 |  |  | 0.83  |  |
| 32 | Simplification and optimization of media ingredients for enhanced production of CMCase by newly isolated Bacillus subtilis NA15", | Nadeem Akhtar, Aanchal, Dinesh Goyal, Arun Goyal  | Environmental Progress and Sustainable Energy, (2014). DOI 10.1002/ep. |  |  | 1.26  |  |
| 33 | A. Sharma, Nadeem Akhtar, Dinesh Goyal and Arun Goyal   | Responsesurface methodology for optimization of microbial cellulase production. A Review.   | (2014) Romanian Biotechnological Letters.                              |  |  | 0.4   |  |
| 34 | Nadeem Akhtar, Kanika Gupta, Alok K. Jain, Dinesh Goyal, Arun Goyal.  | "Surfactant assisted microwave-acid pre-treatment of leaf litter biomass for enhanced enzymatic release of sugars",   | Cellulose Chemistry and Technology, (Accepted) (2014).                 |  |  | 0.83  |  |
| 35 | Mahiti Gupta, Sanjai Saxena and Dinesh Goyal  | Diversity and lipase inhibitory activity of endophytic fungal species associated with Aegle marmelos: A bioresource for potential pancreatic lipase inhibitor.  | (2015): Symbiosis 64 (3): 149-157 DOI 10.1007/s13199-015-0311-9        |  |  |       |  |
| 36 | Raghavendra Aminedi, Niranjana Das  | Class I patatin genes from potato (Solanum tuberosum L.) cultivars: molecular cloning, sequence comparison, prediction of diverse cis-regulatory motifs, and assessment of the promoter activities under field and <i>in vitro</i> conditions | In Vitro Cell. Dev. Biol.-Plant 50:673-6872014                         |  |  | 1.162 |  |
| 37 | Dhakshi Taneja, Niranjana Das   | Molecular cloning, sequence analyses, and expression studies of sucrose-phosphate synthase in the potato (Solanum tuberosum L.) cultivars   | Acta Physiol Plant 36:2253-22692014                                    |  |  | 1.524 |  |

|    |  |   |   |               |   |       |                            |
|----|--|---|---|---------------|---|-------|----------------------------|
| 38 | Conserved peptide containing overlapping CD4+ and CD8+ T cell epitopes in H1N1 influenza virus: An immunoinformatics approach.                             | Lohia N, Baranwal M.  | Viral Immunology  | Internatl     | 0 | 1.636 | 3<br>(Google Scholar:Self) |
| 39 | Changes in endogenous polyamines during in vitro cormlet formation in <i>Gladiolus hybridus</i> Hort.  | Anil Kumar; LMS Palni;  | Scientia Horticulturae<br>162: 260-264 (1.44)   | International |   | 1.504 |                            |
| 40 | Optimization of fermentation parameters for bioconversion of corn to ethanol using response surface methodology  | 7. Walia NK, Sekhon KK, Cameotra SS, Chaudhary DP, Srivastava P; Anil Kumar | Journal of Petroleum Environment and Biotechnology<br>doi.org/10.4172/2157-7463.1000178 (---)     | International |   | ---   |                            |
| 41 | Taxol production by an endophytic fungus <i>Fusarium redolens</i> isolated from Himalayan Yew  | Sanjog Garyali;MS Reddy; Anil Kumar   | Journal of Microbiology and Biotechnology<br>23(10), 1372-1380 (0.74)                             | International |   | 1.353 |                            |
| 42 | Size-controlled silver nanoparticles synthesized over the range 5-100 nm using the same protocol and their antibacterial efficacy                          | Agnihotri Shekhar, Mukherji Soumyo, and Mukherji Suparna                    | RSC Advances  | Internatl.    |   | 3.7   | 3                          |
| 43 | Arginine assisted immobilization of silver nanoparticles on ZnO nanorods: An enhanced and reusable antibacterial substrate without human cell cytotoxicity | Agnihotri Shekhar, Bajaj Geetika, Mukherji Suparna, and Mukherji Soumyo     | Nanoscale   | Internatl.    |   | 6.7   |                            |
| 44 | Potential Xanthine Oxidase inhibitory activity of endophytic <i>Lasiodiplodia pseudotheobromae</i> .   | Neha Kapoor and Sanjai Saxena   | Applied Biochemistry and Biotechnology<br>173 (6): 1360-1374<br>DOI: 201410.1007/s12010-014-0927- | Internatl.    |   |       |                            |
| 45 | <i>Muscodor darjeelingensis</i> , a new endophytic fungus of <i>Cinnamomum camphora</i> collected from north eastern Himalayas.                            | Sanjai Saxena, Vineet Meshram and Neha Kapoor                               | Sydowia 66 (1): 55-67 2014  | Internatl.    |   |       |                            |

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|----|---|---|---|------------|--|--|--|
| 46 | Muscodor strobilii, a new endophytic species from South India.  | Vineet Meshram, <b>Sanjai Saxena</b> and Neha Kapoor    | Mycotaxon 128:93-104<br>2014  | Internatl. |  |  |  |
| 47 | Resveratrol: Biological activities and therapeutic potential  | <b>Sanjai Saxena</b> and Anugya Srivastava              | Journal of Pharmaceutical Technology, Research and Management 2 (2): 145-157 2014 |            |  |  |  |
| 48 | CardiovascularDisease Prediction based on Physical factors using Quantum Neural Network.  | Renu Narain, <b>Sanjai Saxena</b> and Achal Kumar Goyal | International Journal of Information Processing 8 (3): 83 2014                    | internatl  |  |  |  |
| 49 | Enhanced phosphate binding exobiopolymer production by a mutant Acinetobacter haemolyticus is mediated by increased phosphoglucomutase activity, Biocatalysis and Biotransformation | Kaur T, Ghosh M   | Biocatalysis and Biotransformation (2014). inpress                                | internatl  |  |  |  |
| 50 | Antimicrobial efficacy and in vivo toxicity studies of a quaternized biopolymeric flocculant.   |   | Journal of Water and Health. 12(4) :656-62 (IF: 1.172)                            | internatl  |  |  |  |

#### List of Publications (2015)

| S. No. | Title   | Author(s)                                     | Journal  | National / Intl. | Citation Index | Impact factor | H Index          |
|--------|---|---|--|------------------|----------------|---------------|------------------|
| 01     | Potential pancreatic lipase inhibitory activity of an endophytic <i>Penicillium</i> species.  | Mahiti Gupta, Sanjai Saxena and Dinesh Goyal  | Journal of Enzyme Inhibitors and Medicinal Chemistry 30 (1): 15-21 | International.   | 2.383          | 39            | 0.703/<br>0.629  |
| 02     | <i>Muscodor tigerii</i> sp. nov. Volatile antibiotic producing endophytic fungus from North-eastern Himalayas   | Sanjai Saxena, Vineet Meshram and Neha Kapoor | Annals of Microbiology 65(1): 47-57                                | International    | 1.039          | 19            | 0.764<br>/ 0.441 |
| 03     | Diversity and lipase inhibitory activity of endophytic fungal species associated with <i>Aegle marmelos</i> : A bioresource for potential pancreatic lipase inhibitor | Mahiti Gupta, Sanjai Saxena and Dinesh Goyal  | Symbiosis 64 (3): 149-157  | International    | 0.941          | 30            | 0.558<br>/ 0.537 |

DEPARTMENT OF CIVIL ENGINEERING

2010 - 2011

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors  | Impact Factor |
|---------|---|---|--|---------------|
| 1.      | Influence of High Temperature on the Properties of Concretes Made with Industrial By-products as Fine Aggregate Replacement | Construction and Building Materials (Elsevier) Vol. 25, No. 2, 2011, pp. 967-972.                         | Yuksel, I., Siddique, R., Özkan, O.                                | 1.366         |
| 2.      | Use of Municipal Solid Waste Ash in Cement and Mortar   | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 55, No. 2, December 2010, pp. 83-91     | Siddique, R.   | 1.969         |
| 3.      | Influence of Metakaolin on the Near Surface Characteristics of Concrete   | Materials and Structures (Springer) Vol. 44, No. 1, 2011, pp. 77-88.                                      | Siddique, R., Kaur, A.   | 0.752         |
| 4.      | Utilization of Coal Combustion By-products in Sustainable Construction Materials  | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 54, No. 12, October 2010, pp. 1060-1066 | Siddique, R.   | 1.969         |
| 5.      | Properties of self-compacting concrete containing class F fly ash   | Materials & Design (Elsevier), Vol. 32, 2011, pp. 1501-1507   | Siddique, R.   | 1.64          |
| 6.      | Utilization of Municipal Solid Waste (MSW) Ash in Cement and Mortar   | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 54, No. 12, October 2010, pp. 1037-1047 | Siddique, R.   | 1.969         |
| 7.      | Waste foundry sand and its leachate characteristics   | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 54, No. 12, October 2010, pp. 1027-1036 | Siddique, R., Kaur G., Rajor, A.                                   | 1.969         |
| 8.      | Strength, durability, and micro-structural properties of concrete made with used-foundry sand (UFS)                         | Construction and Building Materials (Elsevier), Vol. 25, No. 4, 2011, pp. 1916-1925                       | Siddique, R., Aggarwal Y., Aggarwal, P., Kadri, E., and Rachid, B. | 1.366         |
| 9.      | An Overview of the Properties of High-Strength Concrete Subjected to Elevated Temperatures                                  | Indoor and Built Environment (SAGE), Vol. 19, No. 6, 2010, pp. 612-622                                    | Siddique, R., Noumowe, A.  | 0.634         |
| 10.     | Effect of Metakaolin and Foundry Sand on the Near Surface Characteristics of Concrete                                       | Construction and Building Materials (Elsevier), Vol. 25, No. 4, 2011, pp. 3257-3266.                      | Siddique, R., Kadri, E.H.  | 1.366         |
| 11.     | Use of silicon and ferrosilicon industry by-products (Silica Fume) in Cement Paste and Mortar                               | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 55, No. 8, 2011, pp. 739-744            | Siddique, R., Chahal, N.   | 1.969         |
| 12.     | Experimental Study on Retrofitting of Stressed RC Beams Using GFRP Jackets  | Journal of reinforced Plastics and Composites, Vol. 29, pp.190-200  | Prem Pal Bansal, Maneek Kumar, S. K. Kaushik;                      | 0.763         |
| 13.     | Effect of Initial Stress Levels on Strength Parameters of Reinforced Concrete Beams Retrofitted Using Ferrocement Jackets   | ASTM Journal of Testing and Evaluation, Vol. 39, No. 5, 2011  | Prem Pal Bansal, Maneek Kumar, S. K. Kaushik;                      | 0.23          |
| 14.     | Behavior of Shallow-Beam Supported Reinforced Concrete  | Advances in Structural Engineering, Vol. 13, No. 6, 2010,   | Harvinder Singh, Maneek  | 0.464         |

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year                          | Name of the authors                  | Impact Factor |
|---------|---|---|--------------------------------------|---------------|
|         | Rectangular Slabs: Analytical and Experimental Investigations                                       | pp. 1183-1198   | Kumar, Naveen Kwatra                 |               |
| 15.     | Longitudinal Guided Waves for Monitoring Chloride Corrosion in reinforcing bars in Concrete         | Structural Health Monitoring, Vol. 9, 2010 pp 555-567                     | Sharma S., Mukherjee A.              | 2.115         |
| 16.     | Monitoring progression of corrosion in chloride and oxide environment using ultrasonic guided waves | Journal of Materials in Civil Engineering-ASCE, Vol. 23, 2011, pp 207-211 | Sharma S., Mukherjee A.              | 0.898         |
| 17.     | Reliability based load and resistance factors for soil nailing                                      | Canadian Geotechnical Journal, 48(6), 915-930, 2011                       | Sivakumar Babu GL, Singh VP          | 0.688         |
| 18.     | 2D Numerical simulations of soil nail walls   | Geotechnical and Geological Engineering, 28(4), 299-309, 2010             | Singh VP, Sivakumar Babu GL          | 0.478         |
| 19.     | Generation of synthetic Flood hydrograph in a Large river basin                                     | Journal of Hydrology 381(3-4), 287-296.                                   | Karmaker T., Dutta S.                | 2.514         |
| 20.     | Erodibility of fine soils from the composite bank of Brahmaputra river in India                     | Hydrological Processes 25, 104-111.                                       | Karmaker T., Dutta S.                | 2.068         |
| 21.     | Sediment transport in an active erodible bend of Brahmaputra river                                  | Sadhana (Springer) 35(6), 693-706.  | Karmaker T., Ramaprasad Y., Dutta S. | 0.279         |

#### List of Research publications in Non-SCI/Non-Impact journals

| Sr. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors  |
|---------|--|---|--|
| 1.      | Wear Resistance of High-Volume Fly Ash Concrete  | Leonardo Journal of Sciences, Vol. 17, December 2010, pp. 21-36.                                  | Siddique, R.   |
| 2.      | Use of vibration measurements in health monitoring of reinforced concrete buildings                | International Journal of Structural Integrity, Vol. 1, 2010, pp. 209-232                          | Kanwar V.S., Kwatra N., Aggarwal P., Singh R.P.              |
| 3.      | Damage detection in steel bars using ultrasonic guided waves: an Experimental and Analytical Study | Journal of Structural Engineering, Vol. 37, 2011, pp. 423-435                                     | Sharma S., Mukherjee A., Bishe P.                            |
| 4.      | Mixed Integer Programming for pollution control of Indian Tropical Rivers: A case study            | The Journal of Trans-disciplinary Environmental Studies (Open Access Journal) Vol. 9, no. 2, 2010 | Babbar R., Joshi H.  |
| 5.      | Probabilistic flood hazards mapping for embankment breaching                                       | ISH Journal of Hydraulic Engg 16(SP1),15-25   | Dutta S., Medhi H., Karmaker T., Singh Y., Upasana, Prabu I. |

#### 2011 - 2012

| Sr. No. | Title of the paper   | Name of the Journal with volume, page nos., year                                 | Name of the authors        | Impact Factor |
|---------|--|--|----------------------------|---------------|
| 1.      | Properties of Self-Compacting Concrete Containing Fly Ash Subjected to Elevated Temperatures | Construction and Building Materials (Elsevier), Vol. 30, Pages 274-280, May 2012 | Pathak, N., Siddique, R    | 1.834         |
| 2.      | Influence of Water/Powder Ratio on Strength Properties of Self-                              | Construction and Building Materials (Elsevier), Vol. 29, No.                     | Siddique, R., Aggarwal P., | 1.834         |

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors  | Impact Factor |
|---------|---|---|--|---------------|
|         | Compacting Concrete Containing Coal Fly Ash and Bottom Ash  | 4, pp. 73-81, April 2012  | Aggarwal, Y.   |               |
| 3.      | Properties of Concrete Containing Fungal Treated Waste Foundry Sand   | Construction and Building Materials (Elsevier), Vol. 29, No. 4, pp. 82-87, April 2012   | Kaur, G., Siddique, R., Rajor, A.                              | 1.834         |
| 4.      | Effect of Polyester Fibres on the Compressive Strength and Abrasion Resistance of HVFA Concrete   | Construction and Building Materials (Elsevier), Vol. 29, pp. 270-278, April 2012        | Siddique, R., Kapoor, K., Kadri E.H., Bennacer, R.             | 1.834         |
| 5.      | Use of Cement Kiln Dust in Cement Concrete and its Leachate Characteristic  | Resources, Conservation and Recycling (Elsevier), Vol. 61, pp. 59-68, April 2012        | Kunal, Siddique, R., Rajor, A.                                 | 1.759         |
| 6.      | Influence of Bacteria on the Compressive Strength, Water Absorption, and Rapid Chloride Permeability of Fly Ash Concrete                  | Construction and Building Materials (Elsevier), Vol. 28, No. 1, pp. 351-356, March 2012 | Chahal, N., Siddique, R., Rajor, A.                            | 1.834         |
| 7.      | Abrasion Resistance and Strength Properties of Concrete Containing Waste Foundry Sand (WFS)   | Construction and Building Materials (Elsevier), Vol. 28, pp. 421-426, March 2012        | Singh, G., Siddique, R.  | 1.834         |
| 8.      | Effect of Waste Foundry Sand (WFS) as Partial Replacement of Sand on the Strength, Ultrasonic Pulse Velocity and Permeability of Concrete | Construction and Building Materials (Elsevier), Vol. 26, No. 1, pp. 416-422, Jan 2012   | Singh, G., Siddique, R.  | 1.834         |
| 9.      | Utilization of Silica fume in Concrete: Review of Durability Properties   | Resources, Conservation and Recycling (Elsevier), Vol. 57, pp. 30-35, Dec 2011          | Khan, M. I., Siddique, R.                                      | 1.759         |
| 10.     | Effect of Volcanic Ash on the Properties of Cement Paste and Mortar   | Resources, Conservation and Recycling (Elsevier), Vol. 56, pp. 66-70, Nov 2011          | Siddique, R.   | 1.759         |
| 11.     | Prediction of Compressive Strength of Self-Compacting Concrete Containing Bottom Ash using ANN  | Advances in Engineering Software (Elsevier), Vol. 42, No. 10, pp. 780-786, October 2011 | Siddique, R., Aggarwal P., Aggarwal, Y.                        | 1.226         |
| 12.     | Influence of metakaolin and silica fume on the heat of hydration and compressive strength development of mortar                           | Applied Clay Science (Elsevier), Vol. 53, pp. Pages 704-708, October 2011               | Kadri, E.H., Kenai, S., Ezziane, K., Siddique, R., Shutter, D. | 3.06          |
| 13.     | Utilization of Waste Foundry Sand (WFS) in Concrete Manufacturing   | Resources, Conservation and Recycling (Elsevier), Vol. 55, pp. 885-892, September 2011  | Siddique, R., Singh, G.  | 1.759         |
| 14.     | Utilization of Silica Fume in Concrete: Review of Hardened Properties   | Resources, Conservation and Recycling (Elsevier), Vol. 55, pp. 923-932, September 2011  | Siddique, R.   | 1.759         |
| 15.     | Effect of Metakaolin and Foundry Sand on the Near Surface Characteristics of Concrete   | Construction and Building Materials (Elsevier), Vol. 25, pp. 3257-3266, August 2011     | Siddique, R., Kadri, E.H.                                      | 1.834         |
| 16.     | Calcium Carbonate Precipitation by Different Bacterial Strains  | African Journal of Biotechnology, Vol. 10, No. 42, August 2011, pp. 8359-8372.          | Chahal, N., Siddique, R., Rajor, A.                            | 0.57          |
| 17.     | Effect of Ureolytic Bacteria on Properties of Concrete  | Construction and Building Materials (Elsevier), Vol. 25, pp. 3791-3801, October 2011    | Siddique, R., Chahal, N.                                       | 1.834         |

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year                                      | Name of the authors   | Impact Factor |
|---------|---|---|---|---------------|
| 18.     | Investigation of Slag Cement Quality through the Analysis of its Efficiency Coefficient                                     | European Journal of Environmental and Civil Engineering, Vol. 15, pp. 1393-1411, 2011 | Ezziane K., Kadri, E. H., Siddique, R.                            | 0.32          |
| 19.     | Vibration Monitoring and Damage Assessment of a Retrofitted RC Frame Model  | KMITL Sci. Tech. Journal, Vol. 11, pp 43-53, 2011                                     | Vimutsoongviriyaya A., Kumar M., Kwatra N.                        | 0.043         |
| 20.     | Effect of Initial Stress Levels on Strength Parameters of Reinforced Concrete Beams Retrofitted Using Ferrocement Laminates | ASTM Journal of Testing and Evaluation, Vol. 39 No. 5, 879-888, 2011                  | Bansal P.P. , Kumar M., Kaushik S. K.                             | 0.409         |
| 21.     | Corrosion of Prevention of Reinforced Concrete with Microbial Calcite Precipitation   | ACI Material Journal, Vol 109, pp157-164  | Achal V., Goyal S., Mukherjee A., Reddy M. S.                     | 0.435         |
| 22.     | Virus transport through unsaturated zone: Analysis and parameter identification   | Journal of Hazardous, Toxic and Radioactive Waste, ASCE, Vol 16 (2), 96-105, 2012     | Ojha, C.S.P., Hariprasad, K.S., Ratha, D.N., and Surampalli, R.Y. | 0.6           |
| 23.     | Identification of virus transport parameters in ground water: Data Error and Bias   | Journal of Hydro Environment Research, Elsevier Publisher. Vol 6(1), 41-50, 2012      | Hariprasad, K.S., Ratha, D.N, Ojha, C.S.P.                        | 1.0           |

#### List of Research publications in Non-SCI/Non-Impact journals

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                           |
|---------|---|--|---|
| 1.      | Strength Properties of HVFA Concrete at High Temperature  | Kuwait Journal of Engineering & Science, Kuwait University, Vol. 39, pp. 1-14, June 2012 | Siddique, R                                   |
| 2.      | Properties of Concrete Containing Ground Granulated Blast Furnace Slag (GGBS) at Elevated Temperature                   | Journal of Advanced Research (Elsevier), Vol 3, pp. 45-51, January 2012                  | Siddique, R., Kaur, D                         |
| 3.      | Prediction of collapse load of three-side-supported RC rectangular slabs: A simplified approach                         | Indian Concrete Journal, Vol. 85, pp21-28, 2011  | Singh H., Kumar M., Kwatra N.                 |
| 4.      | Vibration Monitoring of Strengthened RC Buildings using FRP Laminates   | Industrial and Technology Journal, Thailand, Vol. 4, No. 1 pp6-17, 2011                  | Vimutsoongviriyaya A., Kumar M., Kwatra N.    |
| 5.      | Nonlinear Behavior and Effect of GFRP on Strengthened RC Frame Model  | Industrial and Technology Journal, Thailand, Vol. 4, No. 2 pp1-14, 2011                  | Vimutsoongviriyaya A., Kumar M., Kwatra N.    |
| 6.      | Non-destructive testing of materials using capacitance sensing techniques   | MIT International Journal of Electronics and Communication. Vol.1, pp273-277, 2011       | Sharma S., Khanna R., Goyal S., Mukherjee A.  |
| 7.      | Soil nailing for rehabilitation of reinforced earth wall distress   | Ground Improvement, Vol. 164, No. G14, 235-244, 2011                                     | Sivakumar Babu GL, Singh VP, Murthy           |
| 8.      | Development of Impact Matrix for upgradation of Existing two lane carriageway to four lane divided carriageway of NH-64 | Journal of Engineering Science and Management, Vol 2, 2012                               | Sharma A., Chopra T., Dhir A.                 |
| 9.      | The Metamorphosis of Tall Buildings in India: A Wind Engineering Perspective  | ABACUS, Vol 6, 2011, pp33-40   | Mohan K., Gairola A., Mukherjee M., Kwatra N. |



**2012 – 2013**

| <b>Sr. No.</b> | <b>Title of the paper</b>   | <b>Name of the Journal with volume, page nos., year</b>                                       | <b>Name of the authors</b>              | <b>Impact Factor</b> |
|----------------|---|---|---|----------------------|
| 1.             | Non-Destructive Evaluation of Corrosion in Varying Environments Using Guided Waves  | Research in Non-Destructive Evaluation (RNDE), Vol. 24(2), 2013, pp. 63-88.                   | Sharma S., Mukherjee A.                 | 0.679                |
| 2.             | Modeling seepage erosion and bank retreat in composite river banks  | Journal of Hydrology, 476, pp. 178-187, 2013  | Tapas Karmaker and Subashisa Dutta      | 2.656                |
| 3.             | Influence of Fungus on Properties of Concrete Made With Waste Foundry Sand  | Journal of Materials in Civil Engineering (ASCE), Vol. 25, No. 4, April 2013, pp. 484-490     | Kaur, G., Siddique, R., and Rajor, A    | 0.572                |
| 4.             | Properties of Concrete made with Volcanic Ash   | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 66, Sep 2012, pp. 40-44     | Siddique, R.                            | 2.297                |
| 5.             | Utilization of Wood Ash in Concrete Manufacturing   | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 67, October 2012, pp. 27-33 | Siddique, R.                            | 2.297                |
| 6.             | Use of Iron And Steel Industry By-Product (GGBS) In Cement Paste  | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 69, Dec 2012, pp. 29-34     | Siddique, R., and Bennacer, R.          | 2.297                |
| 7.             | Influence of Bacteria on the Compressive Strength, Water Absorption and Rapid Chloride Permeability of Concrete Incorporating Silica Fume | Construction and Building Materials (Elsevier), Vol. 37, Dec 2012, pp. 645-651                | Chahal, N., Siddique, R., and Rajor, A. | 1.834                |
| 8.             | Micro- Structural and Metal Leachate Analysis of Concrete Made With Fungal Treated Waste Foundry Sand                                     | Construction and Building Materials (Elsevier), Vol. 38, Jan 2013, pp. 94-100                 | Kaur, G., Siddique, R., and Rajor, A.   | 1.834                |
| 9.             | Effect of Coal Bottom Ash as Partial Replacement of Sand on Properties of Concrete  | Resources, Conservation and Recycling, Vol. 72, March 2013, pp. 20-32                         | Singh, M., Siddique, R.                 | 2.297                |

**List of Research publications in Non-SCI/Non-Impact journals**

| Sr. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                                     |
|---------|--|---|---|
| 1.      | Flexural Performance of Fibrous Concrete with Cement Additions   | Construction Materials  | Kaur G., Singh S.P., Kaushik S.K.                       |
| 2.      | Fatigue Analysis of Fibrous Concrete with Cement Additions   | Construction Materials  | Kaur G., Singh S.P., Kaushik S.K.                       |
| 3.      | Reviewing Some Properties of Concrete Containing Mineral Admixtures  | Indian concrete journal   | Kaur G., Singh S.P., Kaushik S.K.                       |
| 4.      | Mean and Design Fatigue Lives of Steel Fibrous Concrete Containing Blends of Limestone Powder, Metakaolin and Silica Fume              | Journal of Structural Engineering   | Kaur G., Singh S.P., Kaushik S.K.                       |
| 5.      | Ridge Regression for the Prediction of Compressive Strength of Concrete  | International Journal of Innovations in Engineering and Technology (IJJET), Vol. 2 Issue 3 June 2013/page no. 106-111 | Chopra P., Sharma R. K., Kumar M.                       |
| 6.      | Mechanical and Durability Properties of Self-Compacting Concrete containing Fly ash and Bottom ash                                     | Journal of Sustainable Cement-Based Materials (Taylor & Francis), Vol. 1, No. 3, Sept 2012, pp. 67-82                 | Siddique, R., Aggarwal P., Aggarwal, Y.                 |
| 7.      | Properties of High-Volume Fly Ash Concrete Reinforced with Natural Fibres  | Leonardo Journal of Sciences (LJS), Issue 21, pp. 83-98   | Siddique, R., Kadri, E.H.                               |
| 8.      | Properties of Fine Aggregate-Replaced High Volume Class F Fly Ash Concrete   | Leonardo Journal of Sciences, Issue, 22, Jan-June 2013, pp. 79-90   | Siddique, R.  |
| 9.      | Development of Impact Matrix for up gradation of Existing two lane carriageway to four lane divided carriageway of National Highway-64 | Journal of Engineering Science and Management Volume 2, 2012.   | Chopra T., Sharma A., Dhir A.                           |
| 10.     | Application of Computer Programming in Civil Engineering: Fineness Modulus Calculator  | Indian Journal of Scholarly Research, March 2013  | Anand S., Chopra T., Kumar M.                           |
| 11.     | Role of Landscape Elements in Ameliorating Adverse Pedestrian level Winds in the Vicinity of Tall Buildings                            | Bonfring International Journal of Industrial Engineering and Management Science, Vol.2 No.4, December 2012;pp 41-50.  | Mohan K., Flay RGJ, Gairola A., Kwatra N., Mukherjee M. |
| 12.     | Application of Genetic Programming for Determination of Wind Induced Pressure on Gable Buildings                                       | Journal of Wind & Engineering, ISWE, India Vol.10 No.1 2013, pp 37-53   | Aggarwal D., Kwatra N.                                  |

**2013 - 2014**

| Sr. No. | Title of the paper   | Name of the Journal with volume, page nos., year                                 | Name of the authors | Impact Factor |
|---------|--|--|---------------------|---------------|
| 1.      | Compressive strength, water absorption, sorptivity, abrasion resistance and permeability of self-compacting concrete | Construction and Building Materials (Elsevier), Vol. 47, Oct 2013, pp. 1444-1450 | Siddique, R.        | 1.834         |

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                               | Impact Factor |
|---------|---|---|---|---------------|
|         | containing coal bottom ash  |   |   |               |
| 2.      | Permeation properties of concrete made with fly ash and silica fume: Influence of ureolytic bacteria                                | Construction and Building Materials (Elsevier), Vol. 49, Dec 2013, pp. 161-174  | Chahal, N., Siddique, R.                          | 1.834         |
| 3.      | Influence of bacterial treated cement kiln dust on the properties of concrete   | Construction and Building Materials (Elsevier), Vol. 51, Feb 2014, pp. 42-51  | Kunal, Rajor, A., Siddique, R.                    | 1.834         |
| 4.      | Effect of carbon nanotubes on properties of cement mortars  | Construction and Building Materials (Elsevier), Vol. 50, Jan 2014, pp. 116-129  | Siddique, R., Mehta, A.                           | 1.834         |
| 5.      | Strength Properties and Micro-Structural Properties of Concrete Containing Coal Bottom Ash as Partial Replacement of Fine Aggregate | Construction and Building Materials (Elsevier), Vol. 50, Jan 2014, pp. 246-256  | Singh, M., Siddique, R.                           | 1.834         |
| 6.      | Experimental studies on strength and ductility of CFRP jacketed reinforced concrete beam-column joints                              | Construction and Building Materials (Elsevier), Vol. 55, March 2014, pp. 194-201  | Singh, V., Bansal, P.P., Kumar, M., Kaushik, S.K. | 1.834         |
| 7.      | Microstructure and properties of concrete using bottom ash and waste foundry sand as partial replacement of fine aggregates         | Construction and Building Materials, Volume 54, 15 March 2014, Pages 210-223  | Agrawal, Y., Siddique, R.                         | 1.834         |
| 8.      | Determination of natural periods of vibration using genetic programming   | Earthquake and Structures, Techno press, Feb 2014, pp. 201-216  | Joshi, S.G., Londhe, S.N., Kwatra, N.             | 1.140         |
| 9.      | Application of artificial neural networks for dynamic analysis of building frames   | Computers and Concrete, Techno press, Jun 2014, pp. 765-780   | Joshi, S.G., Londhe, S.N., Kwatra, N.             | 0.936         |
| 10.     | Flow around submerged structures subjected to shallow submergence over plane bed  | Journal of Fluids and Structures, Volume 44, pp. 166-181  | Sarkar, A., Ratha, D.                             | 2.229         |
| 11.     | Monitoring of RCC structures affected by earthquakes  | Geomatics, Natural Hazards and Risk, Taylor & Francis <a href="http://dx.doi.org/10.1080/">http://dx.doi.org/10.1080/</a> | Singh, V., Singh, R.P., Kwatra, N., Aggarwal, P.  | 0.977         |

#### List of Research publications in Non-SCI/Non-Impact journals

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors              |
|---------|---|---|----------------------------------|
| 1.      | Effect of Polypropylene and steel fibers on the strength characteristics of Flyash Concrete | International Journal of Research in Advent Technology, Vol. 3, March 2014, pp. 146-155 | Dhillon, R., Sharma S., Kaur, G. |
| 2.      | Effect of Wire Mesh Orientation on  | International Journal on  | Singh, V., Bansal, P.P.,         |

|    |   |   |   |
|----|---|---|---|
|    | Strength of Exterior RC Beam-Column Joints Retrofitted Using Ferrocement Jackets              | Emerging Technologies, Volume 5, Feb 2014, pp. 212-219  | Kumar, M., Kaushik, S.K.                          |
| 3. | Finite Element Modeling of CFRP Retrofitted RC Beam-Column Joints                             | International Journal on Emerging Technologies, Volume 5, Jan 2014, pp. 31-39                       | Singh, V., Bansal, P.P., Kumar, M., Kaushik, S.K. |
| 4. | Study of Fresh and Hardened Properties of Concrete Modified with Recycled Concrete Aggregates | International Journal of Research in Advent Technology, Volume 3, 2014                              | Sharma, S. Sandeep, S., Chakrabarty, K.           |
| 5. | Guided Waves for Damage Monitoring in Plates for Notch Defects                                | International Journal of Engineering Research and Science & Technology, Volume 3, 2014              | Ramandeep, S., Sharma, S. Sandeep, S.             |
| 6. | Damage Monitoring in Plates Using Guided Waves  | International Journal of Innovative Research in Science, Engineering and Technology, Volume 3, 2014 | Sharma, S. Sandeep, S., Ramandeep, S.             |
| 7. | Biological treatment of alkaline cement kiln dust by using alkalitolerant bacteria            | Journal of Pure and Applied Microbiology, Vol. 7, pp. 1933-1942                                     | Kunal, Rajor, A., Siddique, R.                    |

**2014 – 2015**

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                 | Impact Factor |
|--------|--|---|-------------------------------------|---------------|
| 1.     | Utilization (recycling) of iron and steel industry by-product (GGBS) in concrete: Strength and durability properties                             | Journal of Material Cycles and Waste Management, Volume 16, July 2014, pp. 460-467          | Siddique, R.                        | 0.831         |
| 2.     | Strength, permeability and microstructure of self-compacting concrete containing rice husk ash   | Bio-systems Engineering (Elsevier), Vol. 130, Feb2015, pp. 72-80                            | Chopra, D., Siddique, R., and Kunal | 1.367         |
| 3.     | Compressive strength, drying shrinkage and chemical resistance of concrete incorporating coal bottom ash as partial or total replacement of sand | Construction and Building Materials (Elsevier), October 2014, Volume 68, pp. 39-48          | Singh, M., Siddique, R.             | 1.834         |
| 5.     | Local Micro Mechanics of Moisture Diffusion in Fiber Reinforced Polymer Composites   | International Journal of Heat and Mass Transfer(Elsevier), Volume 76, Sep 2014, pp. 199-209 | Jain, D., Mukherjee, A., Kwatra, N. | 2.522         |
| 6.     | Topological disorder of microstructures in fiber reinforced polymer composites: Diffusion response   | Journal of Reinforced Plastics and Composites Dec2014                                       | Jain, D., Mukherjee, A., Kwatra, N. | 1.188         |
| 7.     | Structural modeling and analysis of water resources development and management system: a graph theoretic approach                                | Water Resources Management, Volume 28, pp. 2981-2997  | Ratha, D., Agrawal, V.P.            | 2.463         |
| 6.     | Pollution risk assessment based on QUAL2E-UNCAS simulations of a tropical river in Northern India  | Environmental Monitoring and Assessment (Springer), Volume 186, pp. 6771-6787               | Babbar, R.                          | 1.679         |
| 7.     | Ultrasonic guided waves for  | Construction and  | Sharma, S.,                         | 1.834         |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year                          | Name of the authors          | Impact Factor |
|--------|---|---|------------------------------|---------------|
|        | monitoring the setting process of concretes with varying workabilities                    | Building Materials (Elsevier), Vol. 72, Dec 2014, pp. 358-366             | Mukherjee, A.                |               |
| 8.     | Monitoring freshly poured concrete using ultrasonic waves guided through reinforcing bars | Cement and Concrete Composites (Elsevier), Vol. 55, Jan 2015, pp. 337-347 | Sharma, S.,<br>Mukherjee, A. | 2.760         |

#### 2010 - 2011

| Sr. No. | Name of the Book                  | Publisher and other details | Name of the author/s  | ISBN No.          |
|---------|-----------------------------------|-----------------------------|-----------------------|-------------------|
| 1.      | Supplementary Cementing Materials | Springer, April 2011        | R. Siddique, M I Khan | 978-3-642-17866-5 |

#### 2011 - 2012

| Sr. No. | Name of the Book                     | Publisher and other details | Name of the author/s | ISBN No.          |
|---------|--------------------------------------|-----------------------------|----------------------|-------------------|
| 1.      | Experiments in Hydraulic Engineering | PHI Limited, New Delhi      | Sarbjit Singh        | 978-81-203-4533-1 |

The year-wise details of the research papers published in indexed journals by the Department are as under:

#### 2009 - 2010

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year                                 | Name of the authors                | Impact Factor and Citation Index |
|---------|---|--|------------------------------------|----------------------------------|
| 1.      | Utilization of Waste Materials and By-Products in Producing Controlled Low-Strength Materials             | Resources Conservation and Recycling (Elsevier), Vol. 54, pp. 1-8, 2009          | R. Siddique                        | 1.987                            |
| 2.      | Dimensional Change and Strength of Mortars Containing Fly Ash and Metakaolin                              | ASCE Journal of Materials in Civil Engineering, Vol. 21, pp. 523-528, 2010       | R. Siddique; J. Khatib; O. Kayali; | 0.459                            |
| 3.      | Abrasion Resistance and Mechanical Properties of High-Volume Fly Ash Concrete                             | Materials and Structures (Springer), Vol. 43, pp. 709-718                        | R. Siddique; J. Khatib             | 0.892                            |
| 4.      | Propagating Longitudinal Guided Waves through Concrete Reinforcements with Simulated and Actual Corrosion | Canadian Journal of Non-Destructive Evaluation, Vol. 31, No. 2, March-April 2010 | Sharma S.,<br>Mukherjee A.         | 0.8                              |

#### 2010 - 2011

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year                                  | Name of the authors                       | Impact Factor |
|---------|---|---|---|---------------|
| 1.      | Influence of High Temperature on the Properties of Concretes Made with Industrial By-products as Fine Aggregate Replacement | Construction and Building Materials (Elsevier) Vol. 25, No. 2, 2011, pp. 967-972. | Yuksel, I.,<br>Siddique, R.,<br>Özkan, O. | 1.366         |
| 2.      | Use of Municipal Solid Waste Ash in Cement and Mortar   | Journal of Resources, Conservation and Recycling                                  | Siddique, R.                              | 1.969         |

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors  | Impact Factor |
|---------|---|---|--|---------------|
|         |   | (Elsevier), Vol. 55, No. 2, December 2010, pp. 83-91  |  |               |
| 3.      | Influence of Metakaolin on the Near Surface Characteristics of Concrete   | Materials and Structures (Springer) Vol. 44, No. 1, 2011, pp. 77-88.                                      | Siddique, R., Kaur, A.   | 0.752         |
| 4.      | Utilization of Coal Combustion By-products in Sustainable Construction Materials  | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 54, No. 12, October 2010, pp. 1060-1066 | Siddique, R.   | 1.969         |
| 5.      | Properties of self-compacting concrete containing class F fly ash   | Materials & Design (Elsevier), Vol. 32, 2011, pp. 1501-1507   | Siddique, R.   | 1.64          |
| 6.      | Utilization of Municipal Solid Waste (MSW) Ash in Cement and Mortar   | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 54, No. 12, October 2010, pp. 1037-1047 | Sidique, R.  | 1.969         |
| 7.      | Waste foundry sand and its leachate characteristics   | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 54, No. 12, October 2010, pp. 1027-1036 | Siddique, R., Kaur G., Rajor, A.                               | 1.969         |
| 8.      | Strength, durability, and micro-structural properties of concrete made with used-foundry sand (UFS)                       | Construction and Building Materials (Elsevier), Vol. 25, No. 4, 2011, pp. 1916-1925                       | Siddique, R., Aggarwal Y., Aggarwal, P., Kadri, E., Rachid, B. | 1.366         |
| 9.      | An Overview of the Properties of High-Strength Concrete Subjected to Elevated Temperatures                                | Indoor and Built Environment (SAGE), Vol. 19, No. 6, 2010, pp. 612-622                                    | Siddique, R., Noumowe, A.                                      | 0.634         |
| 10.     | Effect of Metakaolin and Foundry Sand on the Near Surface Characteristics of Concrete                                     | Construction and Building Materials (Elsevier), Vol. 25, No. 4, 2011, pp. 3257-3266.                      | Siddique, R., Kadri, E.H.                                      | 1.366         |
| 11.     | Use of silicon and ferrosilicon industry by-products (Silica Fume) in Cement Paste and Mortar                             | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 55, No. 8, 2011, pp. 739-744            | Siddique, R., Chahal, N.                                       | 1.969         |
| 12.     | Experimental Study on Retrofitting of Stressed RC Beams Using GFRP Jackets  | Journal of reinforced Plastics and Composites, Vol. 29, pp.190-200  | Bansal P.P., Kumar M., Kaushik S. K.                           | 0.763         |
| 13.     | Effect of Initial Stress Levels on Strength Parameters of Reinforced Concrete Beams Retrofitted Using Ferrocement Jackets | ASTM Journal of Testing and Evaluation, Vol. 39, No. 5, 2011 Online on May 23, 2011                       | Bansal P.P., Kumar M., Kaushik S. K.                           | 0.23          |
| 14.     | Behavior of Shallow-Beam Supported Reinforced Concrete Rectangular Slabs: Analytical and Experimental Investigations      | Advances in Structural Engineering, Vol. 13, No. 6, 2010, pp. 1183-1198                                   | Harvinder Singh, Maneek Kumar, Naveen Kwatra                   | 0.464         |
| 15.     | Longitudinal Guided Waves for Monitoring Chloride Corrosion in reinforcing bars in Concrete                               | Structural Health Monitoring, Vol. 9, 2010 pp 555-567   | Shruti Sharma, Abhijit Mukherjee                               | 2.115         |
| 16.     | Monitoring progression of corrosion in chloride and oxide environment using ultrasonic guided waves                       | Journal of Materials in Civil Engineering-ASCE, Vol. 23, 2011, pp 207-211                                 | Shruti Sharma, Abhijit Mukherjee                               | 0.898         |

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year              | Name of the authors                               | Impact Factor |
|---------|---|---|---|---------------|
| 17.     | Reliability based load and resistance factors for soil nailing                  | Canadian Geotechnical Journal, 48(6), 915-930, 2011           | Sivakumar Babu GL and Singh VP                    | 0.688         |
| 18.     | 2D Numerical simulations of soil nail walls                                     | Geotechnical and Geological Engineering, 28(4), 299-309, 2010 | Singh VP and Sivakumar Babu GL                    | 0.478         |
| 19.     | Generation of synthetic Flood hydrograph in a Large river basin                 | Journal of Hydrology 381(3-4), 287-296.                       | Tapas Karmaker and Subashisa Dutta                | 2.514         |
| 20.     | Erodibility of fine soils from the composite bank of Brahmaputra river in India | Hydrological Processes 25, 104-111.                           | Tapas Karmaker and Subashisa Dutta                | 2.068         |
| 21.     | Sediment transport in an active erodible bend of Brahmaputra river              | Sadhana (Springer) 35(6), 693-706.                            | Tapas Karmaker, Y. Ramaprasad and Subashisa Dutta | 0.279         |

#### 2011 - 2012

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                                   | Impact Factor |
|---------|---|---|---|---------------|
| 1.      | Properties of Self-Compacting Concrete Containing Fly Ash Subjected to Elevated Temperatures  | Construction and Building Materials (Elsevier), Vol. 30, Pages 274-280, May 2012        | Pathak, N., and Siddique, R                           | 1.834         |
| 2.      | Influence of Water/Powder Ratio on Strength Properties of Self-Compacting Concrete Containing Coal Fly Ash and Bottom Ash                 | Construction and Building Materials (Elsevier), Vol. 29, No. 4, pp. 73-81, April 2012   | Siddique, R., Aggarwal P., and Aggarwal, Y            | 1.834         |
| 3.      | Properties of Concrete Containing Fungal Treated Waste Foundry Sand   | Construction and Building Materials (Elsevier), Vol. 29, No. 4, pp. 82-87, April 2012   | Kaur, G., Siddique, R., and Rajor, A                  | 1.834         |
| 4.      | Effect of Polyester Fibres on the Compressive Strength and Abrasion Resistance of HVFA Concrete   | Construction and Building Materials (Elsevier), Vol. 29, pp. 270-278, April 2012        | Siddique, R., Kapoor, K., Kadri E.H., and Bennacer, R | 1.834         |
| 5.      | Use of Cement Kiln Dust in Cement Concrete and its Leachate Characteristic  | Resources, Conservation and Recycling (Elsevier), Vol. 61, pp. 59-68, April 2012        | Kunal, Siddique, R., and Rajor, A                     | 1.759         |
| 6.      | Influence of Bacteria on the Compressive Strength, Water Absorption, and Rapid Chloride Permeability of Fly Ash Concrete                  | Construction and Building Materials (Elsevier), Vol. 28, No. 1, pp. 351-356, March 2012 | Chahal, N., Siddique, R., and Rajor, A                | 1.834         |
| 7.      | Abrasion Resistance and Strength Properties of Concrete Containing Waste Foundry Sand (WFS)   | Construction and Building Materials (Elsevier), Vol. 28, pp. 421-426, March 2012        | Singh, G., and Siddique, R                            | 1.834         |
| 8.      | Effect of Waste Foundry Sand (WFS) as Partial Replacement of Sand on the Strength, Ultrasonic Pulse Velocity and Permeability of Concrete | Construction and Building Materials (Elsevier), Vol. 26, No. 1, pp. 416-422, Jan 2012   | Singh, G., and Siddique, R                            | 1.834         |

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors  | Impact Factor |
|---------|---|---|--|---------------|
| 9.      | Utilization of Silica fume in Concrete: Review of Durability Properties   | Resources, Conservation and Recycling (Elsevier), Vol. 57, pp. 30-35, Dec 2011          | Khan, M. I., and Siddique, R                                       | 1.759         |
| 10.     | Effect of Volcanic Ash on the Properties of Cement Paste and Mortar   | Resources, Conservation and Recycling (Elsevier), Vol. 56, pp. 66-70, Nov 2011          | Siddique, R  | 1.759         |
| 11.     | Prediction of Compressive Strength of Self-Compacting Concrete Containing Bottom Ash using ANN                              | Advances in Engineering Software (Elsevier), Vol. 42, No. 10, pp. 780-786, October 2011 | Siddique, R., Aggarwal P., and Aggarwal, Y                         | 1.226         |
| 12.     | Influence of metakaolin and silica fume on the heat of hydration and compressive strength development of mortar             | Applied Clay Science (Elsevier), Vol. 53, pp. Pages 704-708, October 2011               | Kadri, E.H., Kenai, S., Ezziane, K., Siddique, R., and Shutter, D  | 3.06          |
| 13.     | Utilization of Waste Foundry Sand (WFS) in Concrete Manufacturing   | Resources, Conservation and Recycling (Elsevier), Vol. 55, pp. 885-892, September 2011  | Siddique, R., Singh, G   | 1.759         |
| 14.     | Utilization of Silica Fume in Concrete: Review of Hardened Properties   | Resources, Conservation and Recycling (Elsevier), Vol. 55, pp. 923-932, September 2011  | Siddique, R  | 1.759         |
| 15.     | Effect of Metakaolin and Foundry Sand on the Near Surface Characteristics of Concrete                                       | Construction and Building Materials (Elsevier), Vol. 25, pp. 3257-3266, August 2011     | Siddique, R., and Kadri, E.H                                       | 1.834         |
| 16.     | Calcium Carbonate Precipitation by Different Bacterial Strains  | African Journal of Biotechnology, Vol. 10, No. 42, August 2011, pp. 8359-8372.          | Chahal, N., Siddique, R., and Rajor, A                             | 0.57          |
| 17.     | Effect of Ureolytic Bacteria on Properties of Concrete  | Construction and Building Materials (Elsevier), Vol. 25, pp. 3791-3801, October 2011    | Siddique, R., and Chahal, N  | 1.834         |
| 18.     | Investigation of Slag Cement Quality through the Analysis of its Efficiency Coefficient                                     | European Journal of Environmental and Civil Engineering, Vol. 15, pp. 1393-1411, 2011   | Ezziane K., Kadri, E. H., and Siddique, R                          | 0.32          |
| 19.     | Vibration Monitoring and Damage Assessment of a Retrofitted RC Frame Model  | KMITL Sci. Tech. Journal, Vol. 11, pp 43-53, 2011                                       | Atiwat Vimutsoongviriyaya, Maneeek Kumar Naveen Kwatra             | 0.043         |
| 20.     | Effect of Initial Stress Levels on Strength Parameters of Reinforced Concrete Beams Retrofitted Using Ferrocement Laminates | ASTM Journal of Testing and Evaluation, Vol. 39 No. 5, 879-888, 2011                    | Prem Pal Bansal; Maneeek Kumar, S. K. Kaushik;                     | 0.409         |
| 21.     | Corrosion of Prevention of Reinforced Concrete with Microbial Calcite Precipitation   | ACI Material Journal, Vol 109, pp157-164  | V. Achal, Shweta Goyal, A. Mukherjee, M. S. Reddy                  | 0.435         |
| 22.     | Virus transport through unsaturated zone: Analysis and parameter identification   | Journal of Hazardous, Toxic and Radioactive Waste, ASCE, Vol 16 (2), 96-105, 2012       | Ojha, C.S.P., Hariprasad, K.S., Ratha, D.N., and Surampalli, R.Y., | 0.6           |



| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year                                 | Name of the authors                           | Impact Factor |
|---------|---|--|---|---------------|
| 23.     | Identification of virus transport parameters in ground water: Data Error and Bias | Journal of Hydro Environment Research, Elsevier Publisher. Vol 6(1), 41-50, 2012 | Hariprasad, K.S.,Ratha, D.N, and Ojha, C.S.P. | 1.0           |

### 2012 – 2013

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                 | Impact Factor |
|---------|---|---|-------------------------------------|---------------|
| 1.      | Non-Destructive Evaluation of Corrosion in Varying Environments Using Guided Waves  | Research in Non-Destructive Evaluation (RNDE), Vol. 24(2), 2013, pp. 63-88.                   | Sharma S., Mukherjee A.             | 0.679         |
| 2.      | Modeling seepage erosion and bank retreat in composite river banks  | Journal of Hydrology, 476, 178-187, 2013  | Karmaker T., Dutta S.               | 2.656         |
| 3.      | Influence of Fungus on Properties of Concrete Made With Waste Foundry Sand  | Journal of Materials in Civil Engineering (ASCE), Vol. 25, No. 4, April 2013, pp. 484-490     | Kaur, G., Siddique, R., Rajor, A    | 0.572         |
| 4.      | Properties of Concrete made with Volcanic Ash   | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 66, Sep 2012, pp. 40-44     | Siddique, R.                        | 2.297         |
| 5.      | Utilization of Wood Ash in Concrete Manufacturing   | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 67, October 2012, pp. 27-33 | Siddique, R.                        | 2.297         |
| 6.      | Use of Iron And Steel Industry By-Product (GGBS) In Cement Paste  | Journal of Resources, Conservation and Recycling (Elsevier), Vol. 69, Dec 2012, pp. 29-34     | Siddique, R., Bennacer, R.          | 2.297         |
| 7.      | Influence of Bacteria on the Compressive Strength, Water Absorption and Rapid Chloride Permeability of Concrete Incorporating Silica Fume | Construction and Building Materials (Elsevier), Vol. 37, Dec 2012, pp. 645-651                | Chahal, N., Siddique, R., Rajor, A. | 1.834         |
| 8.      | Micro- Structural and Metal Leachate Analysis of Concrete Made With Fungal Treated Waste Foundry Sand                                     | Construction and Building Materials (Elsevier), Vol. 38, Jan 2013, pp. 94-100                 | Kaur, G., Siddique, R., Rajor, A.   | 1.834         |
| 9.      | Effect of Coal Bottom Ash as Partial Replacement of Sand on Properties of Concrete  | Resources, Conservation and Recycling, Vol. 72, March 2013, pp. 20-32                         | Singh, M., Siddique, R.             | 2.297         |

### 2013 – 2014

| Sr. No. | Title of the paper   | Name of the Journal with volume, page nos., year                                 | Name of the authors | Impact Factor |
|---------|--|--|---------------------|---------------|
| 1.      | Compressive strength, water absorption, sorptivity, abrasion resistance and permeability of self-compacting concrete | Construction and Building Materials (Elsevier), Vol. 47, Oct 2013, pp. 1444-1450 | Siddique, R.        | 1.834         |

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                               | Impact Factor |
|---------|---|--|---|---------------|
|         | containing coal bottom ash  |  |   |               |
| 2.      | Permeation properties of concrete made with fly ash and silica fume: Influence of ureolytic bacteria                                | Construction and Building Materials (Elsevier), Vol. 49, Dec 2013, pp. 161-174   | Chahal, N., Siddique, R.                          | 1.834         |
| 3.      | Influence of bacterial treated cement kiln dust on the properties of concrete   | Construction and Building Materials (Elsevier), Vol. 51, Feb 2014, pp. 42-51   | Kunal, Rajor, A., Siddique, R.                    | 1.834         |
| 4.      | Effect of carbon nanotubes on properties of cement mortars  | Construction and Building Materials (Elsevier), Vol. 50, Jan 2014, pp. 116-129   | Siddique, R., Mehta, A.                           | 1.834         |
| 5.      | Strength Properties and Micro-Structural Properties of Concrete Containing Coal Bottom Ash as Partial Replacement of Fine Aggregate | Construction and Building Materials (Elsevier), Vol. 50, Jan 2014, pp. 246-256   | Singh, M., Siddique, R.                           | 1.834         |
| 6.      | Experimental studies on strength and ductility of CFRP jacketed reinforced concrete beam-column joints                              | Construction and Building Materials (Elsevier), Vol. 55, March 2014, pp. 194-201   | Singh, V., Bansal, P.P., Kumar, M., Kaushik, S.K. | 1.834         |
| 7.      | Microstructure and properties of concrete using bottom ash and waste foundry sand as partial replacement of fine aggregates         | Construction and Building Materials, Volume 54, 15 March 2014, Pages 210-223   | Agrawal, Y., Siddique, R.                         | 1.834         |
| 8.      | Determination of natural periods of vibration using genetic programming   | Earthquake and Structures, Techno press, Feb 2014, pp. 201-216   | Joshi, S.G., Londhe, S.N., Kwatra, N.             | 1.140         |
| 9.      | Application of artificial neural networks for dynamic analysis of building frames   | Computers and Concrete, Techno press, Jun 2014, pp. 765-780  | Joshi, S.G., Londhe, S.N., Kwatra, N.             | 0.936         |
| 10.     | Flow around submerged structures subjected to shallow submergence over plane bed  | Journal of Fluids and Structures, Volume 44, pp. 166-181   | Sarkar, A., Ratha, D.                             | 2.229         |
| 11.     | Monitoring of RCC structures affected by earthquakes  | Geomatics, Natural Hazards and Risk, Taylor & Francis<br><a href="http://dx.doi.org/10.1080/">http://dx.doi.org/10.1080/</a> | Singh, V., Singh, R.P., Kwatra, N., Aggarwal, P.  | 0.977         |
| 12.     | Effect of Polypropylene and steel fibers on the strength characteristics of Flyash Concrete   | International Journal of Research in Advent Technology, Vol. 3, March 2014, pp. 146-155                                      | Dhillon, R., Sharma S., Kaur, G.                  |               |
| 13.     | Study of Fresh and Hardened Properties of Concrete Modified with Recycled Concrete Aggregates                                       | International Journal of Research in Advent Technology, Volume 3, 2014   | Sharma, S., Sandeep, S., Chakrabarty, K.          |               |

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| <b>Sr. No.</b> | <b>Title of the paper</b>  | <b>Name of the Journal with volume, page nos., year</b>                                    | <b>Name of the authors</b>          | <b>Impact Factor</b> |
|----------------|--|--|-------------------------------------|----------------------|
| 1.             | Utilization (recycling) of iron and steel industry by-product (GGBS) in concrete: Strength and durability properties                             | Journal of Material Cycles and Waste Management, Volume 16, July 2014, pp. 460-467         | Siddique, R.                        | 0.831                |
| 2.             | Strength, permeability and microstructure of self-compacting concrete containing rice husk ash   | Biosystems Engineering (Elsevier), Vol. 130, Feb2015, pp. 72-80                            | Chopra, D., Siddique, R., and Kunal | 1.367                |
| 3.             | Compressive strength, drying shrinkage and chemical resistance of concrete incorporating coal bottom ash as partial or total replacement of sand | Construction and Building Materials (Elsevier), October 2014, Volume 68, pp. 39-48         | Singh, M., Siddique, R.             | 1.834                |
| 5.             | Local Micro Mechanics of Moisture Diffusion in Fiber Reinforced Polymer Composites   | International Journal of Heat and Mass Transfer(Elsevier), Volume 76,Sep 2014, pp. 199-209 | Jain, D., Mukherjee, A., Kwatra, N. | 2.522                |
| 6.             | Topological disorder of microstructures in fiber reinforced polymer composites: Diffusion response   | Journal of Reinforced Plastics and Composites Dec 2014                                     | Jain, D., Mukherjee, A., Kwatra, N. | 1.188                |
| 7.             | Structural modeling and analysis of water resources development and management system: a graph theoretic approach                                | Water Resources Management, Volume 28, pp. 2981-2997                                       | Ratha, D., Agrawal, V.P.            | 2.463                |
| 8.             | Pollution risk assessment based on QUAL2E-UNCAS simulations of a tropical river in Northern India  | Environmental Monitoring and Assessment (Springer), Volume 186, pp. 6771-6787              | Babbar, R.                          | 1.679                |
| 9.             | Ultrasonic guided waves for monitoring the setting process of concretes with varying workabilities   | Construction and Building Materials (Elsevier), Vol. 72, Dec 2014, pp. 358-366             | Sharma, S., Mukherjee, A.           | 1.834                |
| 10.            | Monitoring freshly poured concrete using ultrasonic waves guided through reinforcing bars  | Cement and Concrete Composites (Elsevier), Vol. 55, Jan 2015, pp. 337-347                  | Sharma, S., Mukherjee, A.           | 2.760                |

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List of SCI Publications

| S. No. | Authors   | Title   | Journal Name  | Year | Volume | Citations | Impact Factor |
|--------|---|---|---|------|--------|-----------|---------------|
| 1      | M. Kumar, P. Zhang  | Highly sensitive and selective label-free optical detection of mercuric ions using photon upconverting nanoparticles  | Bioelectronics & Biosensors   | 2010 | 25     | 44        | 6.45          |
| 2      | Kushwaha JP, Srivastava VC, Mall ID                         | Treatment of dairy wastewater by commercial activated carbon and bagasse fly ash: Parametric, kinetic and equilibrium modelling, disposal studies.            | Bioresource Technology  | 2010 | 101    | 40        | 5.039         |
| 3      | Bajpai, P.K.  | Solving the problems of recycled fiber processing with enzymes  | BioResources  | 2010 | 5      | 14        | 1.549         |
| 4      | Singh, S.K., Singh, J.K., Kwak, S.K., and Deo, G.           | Phase transition and crossover behavior of colloidal fluids under confinement.  | Chemical Physics Letters  | 2010 | 494    | 5         | 1.991         |
| 5      | Jana, R.N., Bhunia, H.                                      | Accelerated hygrothermal and UV aging of thermoplastic polyurethanes  | High Performance Polymers   | 2010 | 22     | 4         | 1.090         |
| 6      | Sharma V, Srivastava VC, Kushwaha JP, Mall ID               | Studies on biodegradation of resorcinol in sequential batch reactor.  | International Biodeterioration & Biodegradation                         | 2010 | 64     | 9         | 2.235         |
| 7      | Gupta, R.K., Kumar, V., Srivastava, V.K.                    | Modeling of fluid catalytic cracking riser reactor: A review  | International Journal of Chemical Reactor Engineering                   | 2010 | 8      | 9         | 0.582         |
| 8      | Bajpai P. K., Bajpai, P.                                    | Acacia an emerging raw material for pulp  | IPPTA: Quarterly Journal of Indian Pulp and Paper Technical Association | 2010 | 22     | 0         | 0             |
| 9      | Singh, G., Bhunia, H., Rajor, A., Jana, R.N., Choudhary, V. | Mechanical properties and morphology of polylactide, linear low-density polyethylene, and their blends  | Journal of Applied Polymer Science                                      | 2010 | 118    | 22        | 1.640         |
| 10     | Kumar, S., Datta, D., Babu, B. V.                           | Experimental Data and Theoretical (Chemodel using DE and LSER Model) Predictions on Reactive Extraction of Mono-carboxylic Acids using Tri-n-Octylamine (TOA) | Journal of Chemical & Engineering Data                                  | 2010 | 55     | 14        | 2.045         |
| 11     | Singh, S.K., Saha, A.K., and Singh, J.K.                    | A molecular simulation study of vapor-liquid critical properties of a simple fluid in attractive slit pores: Cross over from 3D to 2D.                        | Journal of Physical Chemistry B   | 2010 | 114    | 12        | 3.377         |

| S. No. | Authors  | Title   | Journal Name   | Year | Volume  | Citations | Impact Factor |
|--------|--|---|--|------|---------|-----------|---------------|
| 12     | Ravikumar, C., Singh, S.K., and Bandyopadhyaya, R. | Formation of nanoparticles of water-soluble molecules: Experiments and Mechanism.   | Journal of Physical Chemistry C                              | 2010 | 114     | 6         | 4.835         |
| 13     | Kumar, S., Singh, N., Prasad, R.                   | Anhydrous ethanol: A renewable source of energy   | Renewable and Sustainable Energy Reviews                     | 2010 | 14      | 65        | 5.510         |
| 14     | Kushwaha JP, Srivastava VC, Mall ID                | Organics removal from dairy wastewater by electrochemical treatment and residue disposal.   | Separation and Purification Technology                       | 2010 | 76      | 54        | 3.065         |
| 15     | Ahuja, S.  | Second-order numerator-dynamics systems: Effects of initial discontinuities   | Theoretical Foundations of Chemical Engineering              | 2010 | 44      | 2         | 0.376         |
| 16     | Kushwaha JP, Srivastava VC, Mall ID                | Treatment of dairy wastewater by inorganic coagulants: parametric and disposal studies.   | Water Research   | 2010 | 44      | 26        | 5.323         |
| 17     | Kushwaha JP, Srivastava VC, Mall ID                | Studies on electrochemical treatment of dairy wastewater using aluminum electrode.  | AIChE Journal  | 2011 | 57      | 19        | 2.581         |
| 18     | Chandra, A., Chhabra, R. P.                        | Influence of power-law index on transitional Reynolds numbers for flow over a semi-circular cylinder  | Applied Mathematical Modelling                               | 2011 | 35 (12) | 18        | 2.195         |
| 19     | M. Kumar, D. Zhang, D. Broyles, S.K. Deo           | A rapid sensitive and selective bioluminescent resonance energy transfer (BRET)-based nucleic acid sensing system.  | Bioelectronics & Biosensors                                  | 2011 | 30      | 12        | 6.45          |
| 20     | Kumar, S., Datta, D., Babu, B. V.                  | Estimation of Equilibrium Parameters using Differential Evolution in Reactive Extraction of Propionic Acid by Tri-n-Butyl Phosphate Dissolved in n-Decane & 1-Decanol                           | Chemical Engineering and Processing: Process Intensification | 2011 | 50      | 7         | 1.924         |
| 21     | Ahuja, S.  | Effects of Initial Discontinuities on Nonlinear Systems Represented by Differential Equations with Terms Containing Differentials of Input Function   | Chemical Engineering Communications                          | 2011 | 198     | 1         | 0.913         |
| 22     | Bulasara, V.K., Chandrashekar, O., Uppaluri, R.    | Effect of surface roughness and mass transfer enhancement on the performance characteristics of nickel-hypophosphate electroless plating baths for metal-ceramic composite membrane fabrication | Chemical Engineering Research and Design                     | 2011 | 89      | 10        | 2.281         |
| 23     | Kushwaha JP, Srivastava VC, Mall ID                | An overview of various technologies for the treatment of dairy wastewaters.   | Critical Reviews in Food Science and Nutrition               | 2011 | 51      | 52        | 5.548         |

| S. No. | Authors   | Title   | Journal Name  | Year | Volume   | Citations | Impact Factor |
|--------|---|---|---|------|----------|-----------|---------------|
| 24     | Bulasara, V.K., Thakuria, H., Uppaluri, R., Purkait, M.K. | Effect of process parameters on electroless plating and nickel-ceramic composite membrane characteristics   | Desalination  | 2011 | 268      | 24        | 3.960         |
| 25     | Bulasara, V.K., Thakuria, H., Uppaluri, R., Purkait, M.K. | Nickel-ceramic composite membranes: Optimization of hydrazine based electroless plating process parameters  | Desalination  | 2011 | 275      | 2         | 3.960         |
| 26     | Singh, R., Mehta, R., Kumar, V.                           | Simultaneous removal of copper, nickel and zinc metal ions using bulk liquid membrane system  | Desalination  | 2011 | 272      | 8         | 3.960         |
| 27     | Jana, R.N., Bhunia, H., Im, C.                            | Phase transition behaviour of silicone based liquid crystalline polymers  | E-Polymers  | 2011 | 11       | 0         | 0.330         |
| 28     | Singh, S.K., Singh, J.K.                                  | Effect of pore morphology on vapor-liquid phase transition and crossover behavior of critical properties from 3D to 2D  | Fluid Phase Equilibria  | 2011 | 300      | 16        | 2.241         |
| 29     | Datta, D., Kumar, S.                                      | Reactive Extraction of Glycolic Acid using Tri-n-Butylphosphate and Tri-n-Octylamine in Six Different Diluents: Experimental Data and Theoretical Predictions                           | Industrial & Engineering Chemistry Research                             | 2011 | 50       | 21        | 2.235         |
| 30     | Jain, A., Mehta, R., Mittal, S.K.                         | Modeling impact of solar radiation on site selection for solar PV power plants in India   | International Journal of Green Energy                                   | 2011 | 8        | 12        | 1.469         |
| 31     | Chandra, A., Chhabra, R. P.                               | Flow over and forced convection heat transfer in Newtonian fluids from a semi-circular cylinder   | International Journal of Heat and Mass Transfer                         | 2011 | 54 (1)   | 29        | 2.522         |
| 32     | Chandra, A., Chhabra, R. P.                               | Momentum and heat transfer characteristics of a semi-circular cylinder immersed in power-law fluids in the steady flow regime   | International Journal of Heat and Mass Transfer                         | 2011 | 54 (13), | 19        | 2.522         |
| 33     | Bajpai, P. K.   | Emerging applications of enzymes for energy saving in pulp & paper industry   | IPPTA: Quarterly Journal of Indian Pulp and Paper Technical Association | 2011 | 23       | 1         | 0             |
| 34     | Datta, D., Kumar, S.                                      | Reactive Extraction of 2-Methylidenebutanedioic Acid with N,N-Dioctyloctan-1-amine Dissolved in Six Different Diluents: Experimental and Theoretical Equilibrium Studies at (298 ± 1) K | Journal of Chemical & Engineering Data                                  | 2011 | 56       | 4         | 2.045         |

| S. No. | Authors   | Title   | Journal Name  | Year | Volume | Citations | Impact Factor |
|--------|---|---|---|------|--------|-----------|---------------|
| 35     | Datta, D., Kumar, S., Wasewar, K.L.                       | Reactive Extraction of Benzoic Acid and Pyridine-3-Carboxylic Acid using Organophosphoric- and Aminic Extractant Dissolved in Binary Diluent Mixtures | Journal of Chemical & Engineering Data                                | 2011 | 56     | 6         | 2.045         |
| 36     | Singh, N., Prasad, R.                                     | Experimental studies on the effect of inert gases on diffusion distillation of ethanol-water mixtures   | Journal of Chemical Technology and Biotechnology                      | 2011 | 86     | 1         | 2.494         |
| 37     | Singh, N., Prasad, R.                                     | Fuel grade ethanol by diffusion distillation: an experimental study   | Journal of Chemical Technology and Biotechnology                      | 2011 | 86     | 2         | 2.494         |
| 38     | Kaur, P., Mehta, R., Berek, D., Upadhyay, S.N.            | Synthesis of polylactide: Effect of dispersion of the initiator   | Journal of Macromolecular Science, Part A: Pure and Applied Chemistry | 2011 | 48     | 4         | 0.740         |
| 39     | Bulasara, V.K., Thakuria, H., Uppaluri, R., Purkait, M.K. | Combinatorial performance characteristics of agitated nickel hypophosphite electroless plating baths  | Journal of Materials Processing Technology                            | 2011 | 211    | 8         | 2.041         |
| 40     | Mehta, R., Kumar, V., Upadhyay, S.N.                      | Kinetic parameters estimation of ring-opening poly(lactic acid) polymerization by modeling and simulation   | Journal of Polymer Engineering  | 2011 | 31     |           | 0.500         |
| 41     | Kaur, P., Mehta, R., Upadhyay, S.N.                       | Role of important parameters in ring opening polymerization of polylactide  | Journal of Polymer Engineering  | 2011 | 31     |           | 0.500         |
| 42     | Kumar, S., Datta, D., Babu, B. V.                         | Differential Evolution Approach for Reactive Extraction of Propionic Acid using Tri-n-Butyl Phosphate (TBP) in Kerosene and 1-Decanol                 | Materials & Manufacturing Processes                                   | 2011 | 26     | 2         | 1.058         |
| 43     | Bulasara, V.K., Uppaluri, R., Purkait, M.K.               | Manufacture of nickel-ceramic composite membranes in agitated electroless plating baths   | Materials and Manufacturing Processes                                 | 2011 | 26     | 15        | 1.486         |
| 44     | Singh, S.K., Khan, S., Jana, S., and Singh, J.K.          | Vapor-liquid phase equilibria of simple fluids confined in patterned slit pores   | Molecular Simulation  | 2011 | 37     | 3         | 1.119         |
| 45     | Singh, G., Bhunia, H., Rajor, A., Choudhary, V.           | Thermal properties and degradation characteristics of polylactide, linear low density polyethylene, and their blends                                  | Polymer Bulletin  | 2011 | 65     | 12        | 1.491         |
| 46     | Ahuja S. and Singh D.                                     | A Kinetic Model of Alkali Catalyzed Phenol-furfural Novalac Resinification  | Polymers and Polymer Composites                                       | 2011 | 19     |           | 0.39          |

| S. No. | Authors  | Title   | Journal Name  | Year | Volume  | Citations | Impact Factor |
|--------|--|---|---|------|---------|-----------|---------------|
| 47     | D. Broyles, Kyle Cissel, M. Kumar, S.K. Deo                              | Solution-phase detection of dual microRNA biomarkers in serum.  | Analytical & Bioanalytical Chemistry                                    | 2012 | 402     | 6         | 3.57          |
| 48     | Rameshraj D, Srivastava VC, Kushwaha JP, Mall ID                         | Quinoline adsorption onto granular activated carbon and bagasse fly ash   | Chemical Engineering Journal  | 2012 | 181-182 | 14        | 4.058         |
| 49     | Sharma, S.K., Bhunia, H., Bajpai, P.K.                                   | Photocatalytic Decolorization Kinetics and Mineralization of Reactive Black 5 Aqueous Solution by UV/TiO <sub>2</sub> Nanoparticles             | Clean - Soil, Air, Water  | 2012 | 40      | 13        | 1.838         |
| 50     | Sangal, V.K., Kumar, V., Mishra, I.M.                                    | Optimization of structural and operational variables for the energy efficiency of a divided wall distillation column                            | Computers and Chemical Engineering                                      | 2012 | 40      | 14        | 2.452         |
| 51     | Bulasara, V.K., Abhimanyu, M.S., Pranav, T., Uppaluri, R., Purkait, M.K. | Performance characteristics of hydrothermal and sonication assisted electroless plating baths for nickel-ceramic composite membrane fabrication | Desalination  | 2012 | 284     | 6         | 3.960         |
| 52     | Sharma, S.K., Bhunia, H., Bajpai, P.K.                                   | Photocatalytic decolorization kinetics and adsorption isotherms of a mixture of two anionic azo dyes: Reactive Red 120 and reactive black 5     | Desalination and Water Treatment  | 2012 | 44      | 9         | 0.988         |
| 53     | Jain, A. Rao, P.N.B.V.C., Choudhary, P. Mehta, R. Mittal, S. K           | Optimization studies for hybrid and storage designs for parabolic solar through systems with the system advisor model.                          | Environmental Progress and Sustainable Energy                           | 2012 | 32(4)   | 8         | 1.271         |
| 54     | Chandra, A., Chhabra, R. P.  | Laminar free convection from a horizontal semi-circular cylinder to power-law fluids  | International Journal of Heat and Mass Transfer                         | 2012 | 55 (11) | 21        | 2.522         |
| 55     | Chandra, A., Chhabra, R. P.  | Mixed convection from a heated semi-circular cylinder to power-law fluids in the steady flow regime   | International Journal of Heat and Mass Transfer                         | 2012 | 55 (1)  | 17        | 2.522         |
| 56     | Arya, R.K.   | Photoelectrochemical Hydrogen Production Using Visible Light  | International Journal of Renewable Energy Research                      | 2012 | 2(2)    | 0         | 0             |
| 57     | Bajpai, P. K.  | Effects of increased closure water-loop systems in pulp and paper industry  | IPPTA: Quarterly Journal of Indian Pulp and Paper Technical Association | 2012 | 24      |           | 0             |
| 58     | Singh, G., Kaur, N., Bhunia, H., Bajpai, P.K., Mandal, U.K.              | Degradation behaviors of linear low-density polyethylene and poly(L-lactic acid) blends   | Journal of Applied Polymer Science                                      | 2012 | 124     | 7         | 1.640         |



| S. No. | Authors  | Title  | Journal Name  | Year | Volume    | Citations | Impact Factor |
|--------|--|--|---|------|-----------|-----------|---------------|
| 59     | Singla, P., Mehta, R., Berek, D., Upadhyay, S.N.   | Microwave Assisted Synthesis of Poly (Lactic acid) and its characterization using size exclusion chromatography  | Journal of Macromolecular Science, Part A: Pure and Applied Chemistry | 2012 | A 49 (11) | 3         | 0.740         |
| 60     | Arya, R. K., Vinjamur, M.                          | Sensitivity Analysis of Free-Volume Theory Parameters in Multicomponent Polymer-Solvent-Solvent Systems  | Journal of Polymer Engineering  | 2012 | 32(8-9)   | 1         | 0.500         |
| 61     | Singh, G., Bhunia, H., Bajpai, P.K., Choudhary, V. | Thermal degradation and physical aging of linear low density polyethylene and poly(L-lactic acid) blends   | Journal of Polymer Engineering  | 2012 | 32        | 4         | 0.500         |
| 62     | Bulasara, V.K., Uppaluri, R., Purkait, M.K.        | Effect of ultrasound on the performance of nickel hydrazine electroless plating baths  | Materials and Manufacturing Processes                                 | 2012 | 27        | 8         | 1.486         |
| 63     | Katariya, J., Arya, R.K.                           | Drying of Binary Thin Film Polymeric Coatings: An Experimental Study   | Polish Journal of Chemical Technology                                 | 2012 | 14(4)     | 0         | 0.474         |
| 64     | Singla, R., Mehta, R.                              | Preparation and Characterization of Polylactic Acid-Based Biodegradable Blends Processed Under Microwave Radiation   | Polymer - Plastics Technology and Engineering                         | 2012 | 51        | 12        | 1.481         |
| 65     | Datta, D., Kumar, S., Wasewar, K.L., Babu, B. V.   | Comparative Study on Reactive Extraction of Picolinic Acid with Six Different Extractants (Phosphoric and Aminic) in Two Different Diluents (Benzene and Decan-1-ol) | Separation Science & Technology                                       | 2012 | 47        | 0         | 1.223         |
| 66     | Bulasara, V.K., Babu, Ch.S.N.M., Uppaluri, R.      | Effect of surfactants on the performance of electroless plating baths for nickel-ceramic composite membrane fabrication  | Surface Engineering   | 2012 | 28        | 11        | 1.51          |
| 67     | Sangal, V.K., Kumar, V., Mishra, I.M.              | Divided wall distillation column: Rationalization of degree of freedom analysis  | Theoretical Foundations of Chemical Engineering                       | 2012 | 46        | 2         | 0.376         |
| 68     | Sangal, V.K., Bichalu, L., Kumar, V., Mishra, I.M. | Importance of pressure drop in divided wall distillation column  | Asia-Pacific Journal of Chemical Engineering                          | 2013 | 8         | 4         | 0.623         |
| 69     | Datta, D., Kumar, S.                               | Intensification of Recovery of Formic Acid from Aqueous Stream using Reactive Extraction with N, N-dioctyloctan-1-amine: Effect of Diluent and Temperature           | Chemical Engineering Communications                                   | 2013 | 200 (5)   | 6         | 0.913         |
| 70     | Sangal, V.K., Kumar, V., Mishra, I.M.              | Optimization of a divided wall column for the separation of C4-C6 normal paraffin mixture using Box-Behnken design   | Chemical Industry and Chemical Engineering Quarterly                  | 2013 | 19        | 3         | 0.659         |

| S. No. | Authors   | Title   | Journal Name                                  | Year | Volume  | Citations | Impact Factor |
|--------|---|---|---|------|---------|-----------|---------------|
| 71     | Arya, R. K.   | Finite Element Solution of Coupled-Partial Differential and ordinary Equations in Multicomponent Polymeric Coatings                                       | Computers and Chemical Engineering            | 2013 | 50      | 4         | 2.452         |
| 72     | Jain, A., Vu, T., Mehta, R., Mittal, S.K.                           | Optimizing the cost and performance of parabolic trough solar plants with thermal energy storage in India   | Environmental Progress and Sustainable Energy | 2013 | 32      | 5         | 1.271         |
| 73     | Datta, D., Kumar, S.  | Equilibrium and Kinetic Studies on Reactive Extraction of Nicotinic Acid with Tri-n-octylamine Dissolved in MIBK  | Industrial & Engineering Chemistry Research   | 2013 | 52 (41) | 2         | 2.235         |
| 74     | Narang, S., Mehta, R., Upadhyay, S.N.                               | Polyethylene glycol and montmorillonite clay anchored Schiff base ligand-metal complexes  | Industrial & Engineering Chemistry Research   | 2013 | 52      | 1         | 2.235         |
| 75     | Sharma, S.K., Bhunia, H., Bajpai, P.K.                              | TiO <sub>2</sub> -assisted photocatalytic degradation of diazo dye reactive red 120: Decolorization kinetics and mineralization investigations            | Journal of Advanced Oxidation Technologies    | 2013 | 16      | 1         | 1.106         |
| 76     | Arya, R. K., Vinjamur, M.   | Measurement of Concentration Profiles Using Confocal Raman Spectroscopy in Multicomponent Polymeric Coatings - Model Validation                           | Journal of Applied Polymer Science            | 2013 | 126(63) |           | 1.640         |
| 77     | Kushwaha, J.P., Srivastava, V.C., Mall, I.D.                        | Sequential batch reactor for dairy wastewater treatment: Parametric optimization; Kinetics and waste sludge disposal                                      | Journal of Environmental Chemical Engineering | 2013 | 1       | 4         | 0             |
| 78     | Singh, S.K., Singh, J.K.  | A comparative study of critical temperature estimation of atomic fluid and chain molecules using fourth-order Binder cumulant and simplified scaling laws | Molecular Simulation                          | 2013 | 39      | 1         | 1.119         |
| 79     | Chandra, A., Chhabra, R. P.   | Momentum and heat transfer from a semi-circular cylinder to power-law fluids in the vortex shedding regime  | Numerical Heat Transfer, Part A: Applications | 2013 | 63 (7)  | 12        | 1.847         |
| 80     | Mondal B, Srivastava VC, Kushwaha JP, Bhatnagar R, Singh S, Mall ID | Parametric and multiple response optimization for the electrochemical treatment of textile printing dye-bath effluent.                                    | Separation and Purification Technology        | 2013 | 109     | 11        | 3.065         |
| 81     | Datta, D., Kumar, S.  | Reactive Extraction of Pyridine Carboxylic Acids with N, N-Dioctyloctan-1-amine: Experimental and Theoretical Studies                                     | Separation Science & Technology               | 2013 | 48 (6)  | 4         | 1.223         |
| 82     | Sangal VK, Mishra IM, Kushwaha JP                                   | Electrocoagulation of soluble oil wastewater: parametric and kinetic study  | Separation Science and Technology             | 2013 | 48      | 5         | 1.223         |

| S. No. | Authors   | Title   | Journal Name  | Year | Volume   | Citations | Impact Factor |
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| 83     | Bulasara, V.K., Uppaluri, R., Purkait, M.K.   | Surface engineering characteristics of ultrasound assisted hypophosphite electroless plating baths  | Surface Engineering                                 | 2013 | 29       | 1         | 1.51          |
| 84     | Daftarian, P; Stone, G; Kovalski, L; Kumar, M; Vosoughi, A; Urbietta, M; Blackwelder, P; Dikici, E; Serafini, P; Duffort, S; Boodoo, R; Rodríguez-Cortés, A; Lemmon, V; Deo, S; Alberola, J; Perez, V; Daunert, S; Agar | A targeted and adjuvanted nanocarrier lowers the effective dose of liposomal Amphotericin B and enhances adaptive immunity in murine cutaneous leishmaniasis. | The Journal of Infectious Disease                   | 2013 | 208 (11) | 7         | 5.78          |
| 85     | Bansal, S., Kushwaha, J.P., Sangal, V.K.  | Electrochemical treatment of Reactive Black 5 textile wastewater: Optimization, kinetics, and disposal study  | Water Environment Research                          | 2013 | 85       | 2         | 1.00          |
| 86     | Singh, S.K.   | Effect of dimensionality on vapor-liquid phase Transition   | AIP Conf. Proc.                                     | 2014 | 1591     | 0         | 0             |
| 87     | Singla, P., Mehta, R., Upadhyay, S.N.   | Microwave assisted in situ ring-opening polymerization of polylactide/clay nanocomposites: Effect of clay loading   | Applied Clay Science                                | 2014 | 95       | 1         | 2.703         |
| 88     | Kaur, M., Singh, S., Mehta, R.  | Silver ion beam irradiation effects on poly(lactide-co-glycolide) (PLGA)/clay nanocomposites  | Applied Physics A: Materials Science and Processing | 2014 | 117      |           | 1.694         |
| 89     | Datta, D., Kumar, S.  | Modeling Using Response Surface Methodology and Optimization Using Differential Evolution of Reactive Extraction of Glycolic Acid                             | Chemical Engineering Communications                 | 2014 | 202      | 2         | 0.913         |
| 90     | Sangal V. K., Kumar V., Mishra I. M.  | Process parametric optimization of a divided wall distillation column   | Chemical Engineering Communications                 | 2014 | 201      | 2         | 0.913         |
| 91     | Singh P., Dhir A., Sangal V. K.   | Optimization of Photocatalytic Process Parameters for the Degradation of Acrylonitrile Using Box Behnken Design   | Desalination and Water Treatment                    | 2014 |          |           | 0.988         |
| 92     | Singh S, Kushwaha JP  | Tannic acid adsorption/desorption study onto/from commercial activated carbon   | Desalination and Water Treatment                    | 2014 | 52       | 1         | 0.988         |
| 93     | Singhal, U.M., Dixit, R., Arya, R.K.  | Drying of Multilayer Polymeric Coatings, Part I: An Experimental Study  | Drying Technology                                   | 2014 | 32       | 0         | 1.77          |

| S. No. | Authors   | Title  | Journal Name  | Year | Volume   | Citations | Impact Factor |
|--------|---|--|---|------|----------|-----------|---------------|
| 94     | Arya, R. K.   | Measurement of Concentrations in Thin Film Binary Polymer-Solvent Coatings Using Confocal Raman Spectroscopy: Free Volume Model Validation   | Drying Technology   | 2014 | 32(8)    | 2         | 1.77          |
| 95     | Sengupta, S., Reddy, S.A., Dongara, R., Das, A.K., Bhunia, H., Bajpai, P.K. | Improvement in regeneration properties and multicycle stability for K <sub>2</sub> CO <sub>3</sub> / Al <sub>2</sub> O <sub>3</sub> adsorbents for CO <sub>2</sub> removal from flue gas | Energy & Fuels  | 2014 | 28       | 1         | 2.733         |
| 96     | Ganguly S. K, Vohra N, Varun N; Das G, Bhunia, H.                           | Kinetics of Thiophene Hydrodesulphurization: Pore Diffusional Effects  | Energy Technology   | 2014 | 2        | 0         | 0             |
| 97     | Arya, R. K.   | Characterization of Bio-Active Nanoparticles - Bhasma An Ayurvedic Drug  | Indian Journal of Pharmaceutical Education and Research               | 2014 | 48(1)    | 0         | 0.219         |
| 98     | Singh, D., Gupta, R.K., Kumar, V.   | Experimental studies of industrial-scale reactive distillation finishing column producing ethyl acetate  | Industrial & engineering chemistry research,                          | 2014 | 53       | 2         | 2.235         |
| 99     | Uslu, H., Datta, D., Bamufleh, H. S.  | Extraction Equilibria of Gibberellic Acid by Tridodecylamine Dissolved in Different Alcohols   | Journal of Chemical & Engineering                                     | 2014 | 59       | 1         | 2.045         |
| 100    | Datta, D., Uslu, H.   | Investigation of Extraction of Phenol from Wastewater Using N,N-Didodecyl-1-dodecanamine (Tridodecylamine) in Benzene  | Journal of Chemical & Engineering                                     | 2014 | 59       | 0         | 2.045         |
| 101    | Uslu, H., Datta, D., Kumar, S.  | Reactive Extraction of Oxoethanoic Acid (Glyoxylic Acid) Using Amberlite-LA2 in Different Diluents   | Journal of Chemical & Engineering                                     | 2014 | 59(8)    | 2         | 2.045         |
| 102    | Datta, D., Kumar, S.  | Reactive Extraction of Pyridine-2-carboxylic Acid (Picolinic Acid) Using Nontoxic Extractant and Diluent Systems   | Journal of Chemical & Engineering                                     | 2014 | 59(5)    | 1         | 2.045         |
| 103    | Singh, N., Prasad, R.   | Performance of diffusion distillation column for production of fuel grade ethanol  | Journal of Chemical Technology and Biotechnology                      | 2014 | In Press | 0         | 2.494         |
| 104    | Singla, P., Mehta, R., Berek, D., Upadhyay, S.N.                            | Ring opening polymerization of lactide in a monomode microwave using stannous octoate and dibutyltin dimethoxide catalysts   | Journal of Macromolecular Science, Part A: Pure and Applied Chemistry | 2014 | 51(4)    | 1         | 0.740         |
| 105    | Puri, P., Mehta, R., Rattan, S.   | Synthesis and mechanical properties of polyurethane/clay nanocomposites  | Journal of Optoelectronics and Advanced Materials                     | 2014 | 16       |           | 0.563         |

| S. No. | Authors  | Title   | Journal Name                           | Year | Volume   | Citations | Impact Factor |
|--------|--|---|--|------|----------|-----------|---------------|
| 106    | Madhu, G., Bhunia, H., Bajpai, P.K., Chaudhary, V.           | Mechanical and morphological properties of high density polyethylene and polylactide blends   | Journal of Polymer Engineering         | 2014 | 34       | 0         | 0.500         |
| 107    | Madhu, G., Bhunia, H., Bajpai, P. K.                         | Investigation of physico-mechanical properties and biodegradability of high density polyethylene/polylactide blends                               | Journal of Polymer Materials           | 2014 | 31       | 0         | 0.253         |
| 108    | Jain, K., Madhu, G., Bhunia, H., Bajpai, P. K., Reddy, M. S. | Kinetics of biodegradation of polypropylene/polylactide blends  | Journal of Polymer Materials           | 2014 | 31       | 0         | 0.253         |
| 109    | Arya, D., Gupta, R.K.  | Simulation studies on variable cluster size in FCC riser reactor  | Particulate Science and Technology     | 2014 | 32       |           | 0.435         |
| 110    | Madhu, G., Bhunia, H., Bajpai, P.K.                          | Blends of high density polyethylene and poly(L-lactic acid): Mechanical and thermal properties  | Polymer Engineering and Science        | 2014 | 54       | 1         | 1.441         |
| 111    | Kaur, M., Singh, S., Mehta, R.                               | The Effect of O <sub>6</sub> <sup>+</sup> and Si <sub>7</sub> <sup>+</sup> ion beam irradiations on poly(lactide-co-glycolide) (50: 50) copolymer | Polymer Science - Series B             | 2014 | 56       |           | 0.633         |
| 112    | Sharma, A., Sharma, A., Arya, R.K.                           | Removal of Mercury(II) Ions from Aqueous Solution - A Review of Recent Work   | Separation Science & Technology        | 2014 | In Press | 0         | 1.223         |
| 113    | Tiwari, K., Agrawal, S., Arya, R. K.                         | Generalized Pinch Analysis Scheme Using MATLAB  | Chemical Engineering & Technology      | 2015 | 38(3)    | 0         | 2.175         |
| 114    | Garg, A., Mainrai, M., Bulasara, V. K., Barman, S.           | Experimental Investigation on Adsorption of Amido Black 10B Dye onto Zeolite Synthesized from Fly Ash   | Chemical Engineering Communications    | 2015 | 202      | 1         | 0.913         |
| 115    | Datta, D., Uslu, H., Kumar, S.                               | Intensification of Picolinic Acid Extraction with Tri-n-Butylphosphate and Tri-n-Octylamine in Three Different Diluents                           | Chemical Engineering Research & Design | 2015 | 95       | 0         | 2.281         |
| 116    | Singh, D., Gupta, R.K., Kumar, V.                            | Simulation of a plant scale reactive distillation column for esterification of acetic acid  | Computers and Chemical Engineering     | 2015 | 73       |           | 2.452         |
| 117    | Kushwaha J P   | A review on sugar industry wastewater: sources, treatment technologies, and reuse   | Desalination and Water Treatment       | 2015 | 53       | 3         | 0.988         |
| 118    | Singh, G., Bulasara, V. K.                                   | Preparation of low-cost microfiltration membranes from fly ash  | Desalination and Water Treatment       | 2015 | 53       | 1         | 0.988         |
| 119    | Bhargava, C.K., Arya, R.K.                                   | Design of Binary Polymeric Coatings for Minimizing the Residual Solvent, Part I: Experimentation  | Drying Technology                      | 2015 | 33       | 0         | 1.77          |

| S. No. | Authors  | Title  | Journal Name  | Year | Volume   | Citations | Impact Factor |
|--------|--|--|---|------|----------|-----------|---------------|
| 120    | Sengupta, S., Amte, V., Dongara, R., Das, A., Bhunia, H., Bajpai, P.K. | Effects of adsorbent preparation method for CO <sub>2</sub> Capture from flue gas using K <sub>2</sub> CO <sub>3</sub> Al <sub>2</sub> O <sub>3</sub> adsorbents | Energy & Fuels  | 2015 | 29       | 0         | 2.733         |
| 121    | Ojha, A. K., Bularasa, V. K.   | Adsorption characteristics of jackfruit leaf powder for the removal of Amido black 10B dye   | Environmental Progress & Sustainable Energy                   | 2015 | 34       | 0         | 1.271         |
| 122    | Purandare, P. S., Lele, M. M., Gupta, R. K.                            | Experimental investigation on heat transfer analysis of conical coil heat exchanger with 90° cone angle  | Heat and Mass Transfer  | 2015 | 51       |           | 0.929         |
| 123    | Kaur P, Singh A P, Prince A K, Kushwaha J P                            | Optimization and evaluation of CBSOL LE red wool dye adsorption from aqueous solution onto commercial activated carbon   | International Journal of Environmental Science and Technology | 2015 | In Press | 0         | 1.794         |
| 124    | Datta, D., Selim, Y., Tuyun, A. F.                                     | Intensification of Citric Acid Extraction by a Mixture of Trioctylamine and Tridodecylamine in Different Diluents  | Journal of Chemical & Engineering Data                        | 2015 | 60       | 0         | 2.045         |
| 125    | Datta, D., Kumar, S., Uslu, H.   | Status of the Reactive Extraction as a Method of Separation  | Journal of Chemistry  | 2015 | 2015     | 0         | 0.622         |
| 126    | Goel, C., Bhunia, H., Bajpai, P. K.                                    | Mesoporous carbon adsorbents from melamine-formaldehyde resin using nanocasting technique for CO <sub>2</sub> adsorption   | Journal of Environmental Sciences                             | 2015 |          | 0         | 1.922         |
| 127    | Puri, P., Mehta, R., Rattan, S.  | Synergistic effects of clay and GNPs on electrical and mechanical properties of PU/GNP/OMMT ternary composite  | Journal of Optoelectronics and Advanced Materials (Accepted)  | 2015 |          |           | 0.563         |
| 128    | Jain, K., Madhu, G., Bhunia, H., Bajpai, P. K.                         | Physico-mechanical characterization and biodegradability behavior of polypropylene/poly(L-lactide) polymer blends  | Journal of Polymer Engineering                                | 2015 |          | 0         | 0.500         |
| 129    | Arya, R.K., Bhargava, C.K.   | Simulation analysis of drying of ternary polymeric solution coatings   | Progress in Organic Coatings                                  | 2015 | 78       | 0         | 2.302         |
| 130    | Ahuja, S.  | Discontinuity Analysis for the Treatment of Nonlinear Lumped-Parameter Systems for Singular Inputs   | Theoretical Foundations of Chemical Engineering               | 2015 | accepted |           | 0.376         |
| 131    | Purandare, P. S., Lele, M. M., Gupta, R. K.                            | Experimental investigation on heat transfer and pressure drop of conical coil heat exchanger with parameters tube diameter, fluid flow rates and cone angle      | Thermal Science   | 2015 |          |           | 0.962         |

### List of Non-SCI Publications

| S. No. | Authors   | Title   | Journal Name  | Year | Volume | Page start | Page end | Citations |
|--------|---|---|---|------|--------|------------|----------|-----------|
| 1      | Bajpai, P. K., Bajpai, P., Nyman,                       | Bleaching of pulp with proxy acids  | PaperIndia  | 2010 | 13(5)  | 4          | 12       |           |
| 2      | Rouf, M. A., Bajpai, P. K., Jotshi, C. K.               | Optimization of biogas generation from press mud in batch reactor   | Bangladesh JSIR   | 2010 | 45(4)  | 371        | 376      | 6         |
| 3      | Barman, S.  | Role of acid strength on ethylation of benzene over cerium modified zeolite catalyst.                               | Journal of Applied Science  | 2010 | 2      | 55         | 64       |           |
| 4      | Barman S  | The Role of Acid strength of modified zeolites on gas phase ethylation of benzene                                   | Journal of Applied Science  | 2010 | 10     | 2602       | 2607     | 2         |
| 5      | Arya, R. K.   | Calibration Curves to Measure Concentrations in Multicomponent Polymeric Coatings Using Confocal Raman Spectroscopy | International Journal of Chemical Engineering and Applications            | 2011 | 2(6)   | 421        | 424      | 2         |
| 6      | Singh, R. I., Mohapatra, S. K., Gangacharyulu, D.       | Fluidized Bed Combustion and Gasification of Rice Husk-A State of Art Review  | International Journal of Renewable Energy Technology                      | 2011 | 2      | 345        | 372      | 2         |
| 7      | Sharma, B., Chhibber, R., R. Mehta                      | Layered Silicates in Fibre-reinforced Composites  | Research Bulletin Of The Australian Institute Of High Energetic Materials | 2011 | 1      | 106        | 118      |           |
| 8      | Singh, R. I., Mohapatra, S. K., Gangacharyulu, D.       | Study of agglomeration in 3.5 MW AFBC using rice husk particles   | International Journal of Renewable Energy Technology                      | 2011 | 2      | 120        | 142      | 1         |
| 9      | Sayal, A. Bulasara, V. K., Barman, S.                   | A Study on Synthesis of Zeolite and Removal of Amido Black dye by adsorption with Zeolite                           | Chemical and Process Engineering Research                                 | 2012 | 2      | 54         | 64       | 5         |
| 10     | Singla, P., Mehta, R., and Upadhyay, S. N.              | Clay Modification by the use of Organic Cations   | Green And Sustainable Chemistry   | 2012 | 2      | 21         | 25       |           |
| 11     | Chandra, A., Chhabra, R. P.                             | Effect of Prandtl Number on Natural Convection Heat Transfer from a Heated Semi-Circular Cylinder                   | International Scholarly and Scientific Research & Innovation              | 2012 | 6(1)   | 440        | 446      | 2         |
| 12     | Sharma, B., Mahajan, S., R. Chhibber, R., and Mehta, R. | Glass fiber reinforced polymer-clay nanocomposites: processing, structure And hygrothermal                          | Procedia Chemistry (Elsevier)   | 2012 | 4C     | 39         | 46       |           |

| S. No. | Authors   | Title  | Journal Name   | Year | Volume | Page start | Page end | Citations |
|--------|---|--|--|------|--------|------------|----------|-----------|
|        |   | effects on mechanical properties   |  |      |        |            |          |           |
| 13     | Arya, R. K.   | Non-Fickian Drying of Polymeric Coatings   | International Journal of Scientific & Technology Research                            | 2012 | 1(1)   | 1          | 6        |           |
| 14     | Arya, R. K.   | Optimization of Free-Volume Theory Parameters For Ternary Polymeric Coatings From Binary Weight Loss Experiments                 | International Journal of Scientific & Technology Research                            | 2012 | 1(3)   | 27         | 30       |           |
| 15     | Purandare, P. S.,<br>Lele, M. M., Gupta,<br>R. K.               | Parametric Analysis of Helical Coil Heat Exchanger   | International Journal of Engineering Research and Technology                         | 2012 | 2      |            |          |           |
| 16     | Das S., Barman<br>S., Thakur R                                  | Removal of Methyl Orange and Methylene Blue dyes from aqueous solution using low cost adsorbent zeolite synthesized from fly ash | Journal of Environment Science and Engineering                                       | 2012 | 50     | 472        | 480      | 5         |
| 17     | Singla, P. Kaur,<br>R.Mehta, D. Berek,<br>S.N. Upadhyay         | Ring-opening Polymerization of Lactide using Microwave and Conventional Heating  | Procedia Chemistry (Elsevier), 4c, 179-185   | 2012 | 4C     | 179        | 185      |           |
| 18     | Sayal, A., Bulasara<br>V.K., Barman, S.,                        | Synthesis and application of zeolite for removal of Amido Black dye from waste water   | Chemical and Process Engineering Research  | 2012 | 2      | 55         | 64       | 5         |
| 19     | Kaur, P., Mehta, R.,<br>Dusan Berek, D.,<br>and Upadhyay, S. N. | Synthesis of Polylactide under Inert Atmosphere and Vacuum   | Macromol Symposia  | 2012 | 315    | 106        | 111      |           |
| 20     | Purandare, P. S.,<br>Lele, M. M., Gupta,<br>R. K.               | Effect of Geometric Parameters on Performance of Helical Coiled Tube Heat Exchanger  | International Review of Mechanical Engineering                                       | 2013 | 7      | 105        | 110      |           |
| 21     | Juneja, M.,<br>Gangacharyulu, D.                                | Experimental Analysis on Influence of Temperature and Volume Fraction of Nanofluids on Thermophysical Properties                 | International Journal of Emerging Technologies in Computational and Applied Sciences | 2013 | 3      | 233        | 238      |           |



| S. No. | Authors   | Title  | Journal Name  | Year | Volume | Page start | Page end | Citations |
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| 22     | Singh, K., Sharma, S., Gangacharyulu, D.                | Experimental Study of Thermophysical Properties of Al <sub>2</sub> O <sub>3</sub> /Water Nanofluid                       | International Journal of Research in Mechanical Engineering & Technology            | 2013 | 3      | 229        | 232      |           |
| 23     | Gupta, R. K. and Sharma, H.                             | Fluid catalytic cracking riser reactor: simulation studies   | Petroleum & Coal  | 2013 | 55     | 50         | 56       |           |
| 24     | Garg, M., Sharma, S., Gangacharyulu, D.                 | Gear Oil Drainage from End-Of-Life Vehicles (Elvs): Statistical Results  | International Journal of Engineering Sciences & Research Technology (IJESRT)        | 2013 | 2(9)   | 2558       | 2565     |           |
| 25     | Khullar, A., Sharma, S., Gangacharyulu, D.              | Heat Transfer and Pressure Drop of Nanofluids containing Aluminum Oxide with Transformer Oil in Horizontal Pipe          | International Journal on Theoretical and Applied Research in Mechanical Engineering | 2013 | 2      | 137        | 143      |           |
| 26     | Arya, R. K.   | Phase Separation in Multicomponent Polymer - Solvent - Nonsolvent Coatings   | South African Journal of Chemical Engineering                                       | 2013 | 18(1)  | 30         | 40       | 1         |
| 27     | Saluja R., Kushwaha J P, Sangal V. K.                   | Preparation of Peanut Shell Adsorbent for the Removal of Reactive Dyes from Waste Water                                  | International Journal of Environmental Research and development                     | 2013 | 3      | 29         | 33       |           |
| 28     | Kushwaha JP, Srivastava VC, Mall ID                     | Sequential batch reactor for dairy wastewater treatment: parametric optimization; kinetics and waste sludge disposal     | Journal of Environmental Chemical Engineering                                       | 2013 | 1      | 1036       | 1043     | 4         |
| 29     | Das S., Barman S,                                       | Studies on removal of safranin-t and methyl orange dyes from aqueous solution using nax zeolite synthesized from fly ash | International Journal of Science and Environment                                    | 2013 | 2      | 735        | 747      | 1         |
| 30     | Prabhakar, P., Singh, C., Gangacharyulu, D              | Synthesis and experimental details of thermophysical properties of nanofluids  | International Journal of Enterprise Computing and Business Systems                  | 2013 | 2      | Online     |          |           |
| 31     | Rouf, M. A., Islam, M. S., Bajpai, P. K., Jotshi, C. K. | Techno-economic biogas production from press mud in Bangladesh   | Bangladesh J. Sci. Ind.   | 2013 | 48(1)  | 51         | 58       |           |

| S. No. | Authors  | Title   | Journal Name   | Year | Volume | Page start | Page end | Citations |
|--------|--|---|--|------|--------|------------|----------|-----------|
| 32     | Kumar,S., Sharma, S., Gangacharyulu, D.        | Coding, Evaluation, And Optimum Selection Of Nanofluid In Plate Heat Exchanger Using MADM Approach            | International Journal of Engineering Science & Technology          | 2014 | 6(8)   | 527        | 529      |           |
| 33     | Dave, S. and Barman S.                         | Optimization of process parameters in transalkylation of benzene over zeolite by response surface methodology | Trends in Chemical Engineering                                     | 2014 | 1      | 22         | 30       |           |
| 34     | Mohit Garg, Sumeet Sharma and D. Gangacharyulu | Processing of End-of-Life Vehicles (ELVS)   | International Journal of Research in Advent Technology             | 2014 | 2      | 6          | 9        |           |
| 35     | Sharma, P., Sharma, S., Gangacharyulu, D.      | Review on thermal properties of nanofluids and factors affecting the same                                     | International Journal of Engineering Sciences & Technology (IJEST) | 2014 | 6      | 502        | 519      |           |
| 36     | Sayal A., Sangal V.K., Singh P.                | Simulation Study for the Production of Hydrocarbon from Waste   | American J. of Eng. Res.   | 2014 | 3      | 251        | 259      |           |

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List of research publications in International Journals

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                                |
|--------|---|--|--|
| 1.     | Colony Based Rule Generation for Reusable Software Component Retrieval  | IGSOFT Software Engineering Notes, Vol 35 Issue 2, March 2010  | Rajesh K. Bhatia, Mayank Dave, R. C. Joshi         |
| 2.     | Testing Functional Requirements using B Model Specifications  | IGSOFT Software Engineering Notes, Vol 35 Issue 2, March 2010.   | Amit Gupta , Rajesh Bhatia                         |
| 3.     | Extending Self-Healing in Grid Environment by Pulse Monitoring  | Multi agent and Grid Systems, a peer-reviewed International Journal, published by IOS Press, ISSN: 1574-1702 MAGS (Accepted for Publication) | Inderveer Chana, Seema Bawa                        |
| 4.     | Off-Line Handwritten Digit Recognition of Manipuri Script Using Back propagation Neural Network                 | International Journal of Computer Science & Engineering Systems, IJCSES Accepted, to be published in Vol. 4, No. 2/3 (Apr/ July 2010).       | Th.Tangkeshwar, P.K.Bansal, Renu Vig, Seema Bawa   |
| 5.     | TUX-INTERO: A Portal for Secure Interoperation of Grids   | International Journal of Engineering Science and Technology, Volume 7, Issue 2, pp 3335 – 3343.  | Shashi, Seema Bawa                                 |
| 6.     | Web Service Categorization Using Normalized Similarity Score  | International Journal of Computer Theory and Engineering, Vol. 2, No. 1, 2010, pp. 139-143   | Shalini Batra, Seema Bawa                          |
| 7.     | A Location Dependent Connectivity Guarantee Key Management Scheme for Heterogeneous Wireless Sensor Networks    | Journal of Advances in Information Technology,(Special Issue on Ubiquitous and Mobile Computing 1(1)   | Kamal Kumar, R B Patel, A K Verma                  |
| 8.     | DNA based Cryptography: an Approach to Secure Mobile Networks   | International Journal of Computer Applications, Published 1(1), 82-85.   | Harneet Singh, Karan Chugh, Harsh Dhaka, A K Verma |
| 9.     | Enhancing the learning of students of higher education through innovative communication modes of Knowledge: ESM | Global J. of Management and Business Research 10(2), 42-50   | Parul, Ravi Kiran, A K Verma                       |
| 10.    | Evaluation of Routing Protocols for Ad Hoc Mobile Wireless Networks   | International J. of Engg. Tech. 2(2), 226-231  | Anuj Gupta; Harsh Kumar, A K Verma                 |
| 11.    | Comparative Analysis of various Crosstalk Avoidance techniques in Optical MINs                                  | Atti Della Ā-Fondazione Giorgio RonchiĀ®, Anno (Published from Italy) Vol. 14, pp. 507-513   | Rinkle Aggarwal, Shruti Chopra                     |
| 12.    | Design Scheme and Performance evaluation of a new Fault-tolerant Multistage Interconnection Network             | International Journal of Computer Science and Network Security Vol. 9, pp. 270-276   | Rinkle Aggarwal, Karamjit Kaur                     |
| 13.    | Fault-Tolerance and Permutation Analysis of ASEN and its Variant  | International Journal of Computer Science and Information Technologies Vol. 1, pp. 24-32   | Rinkle Aggarwal, Lakhwinder Kaur                   |
| 14.    | Survey and Comparison of Optical Switch Fabrication Techniques and Architectures                                | International Journal of Computing Vol. 2, pp. 1-9   | Rinkle Aggarwal, Ravinder Yadav                    |
| 15.    | Simulation of Permutation Possibility of Fault-tolerant Multistage Interconnection Networks                     | International Journal of Recent Trends in Engineering Vol. 3, 24-28  | Rinkle Aggarwal, Lakhwinder Kaur                   |
| 16.    | Applying Association Rules For  | International Journal of Computer and  | Shalija Kaushik,                                   |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors               |
|--------|---|--|-----------------------------------|
|        | Web Services Categorization   | Electrical Engineering, Vol. 2, No. 3, 2010, pp. 465-468   | Shalini Batra                     |
| 17.    | Ontological Approach to Integrate Semantically Related Databases                                | CiiT International Journal of Data Mining and Knowledge Engineering, June, 2010, (Accepted)      | Shalini Batra, Sugandha Lohar     |
| 18.    | Comparative Analysis of various Semantic Relatedness Measures                                   | CiiT International Journal of Artificial Intelligent Systems and Machine Learning (Accepted)     | Shirin Chandna, Shalini Batra     |
| 19.    | Design and Implementation of SUDHAAR-Punjabi Spell Checker                                      | International Journal of Information and Telecommunication Technology, Vol 1                     | Rupinderdeep Kaur, Parteek Bhatia |
| 20.    | Multidimensionality in Agile Software Development   | (IJCSIS) International Journal of Computer Science and Information Security Vol 8, 234-238, 2010 | Ashima, Dr. Himanshu Aggarwal     |
| 21.    | Essence of Software Process Reengineering in SMEs: Towards Process Customization and Automation | Global Journal of Enterprise Information System Vol. 2, 94-103,2010                              | Ashima, Dr. Himanshu Aggarwal     |

#### List of research publications in National Journals

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors         |
|--------|---|---|-----------------------------|
| 1.     | TUX-TMS: A Reputation based Trust System  | International Journal of Security, CSC Publications, Volume (4), Issue (1), pp 1-16.  | Shashi, Seema Bawa          |
| 2.     | A Survey on Neural Network Solutions for Routing in Optical Multistage Interconnection Networks | Journal of Research Vol. 2, pp. 68-73   | Rinkle Aggarwal             |
| 3.     | Extending self- healing in grid environment by pulse monitoring                                 | Journal : Multi agent and Grid Systems, IOS press, Vol. 6, No. 3/ Aug 2010, pp 245-260  | Inderveer Chana, Seema Bawa |
| 4.     | Review of Machine Learning Approaches to Semantic Web Service Discovery                         | Journal of Advances in Information Technology, Special Issue on Advances in Ubiquitous Computing, ISSN 1798-2340, Academy Publisher Vol. 1, No. 3, August 2010, pp. 146-151 | Shalini Batra, Seema Bawa   |
| 5.     | Grid Enabled Architectures for DWDM Network Design and optimization Tool                        | Global Journal of Computer Science & Technology, USA, Vol. 10, Issue. 9, Sep 2010, pp 64 - 67   | Bhupinder Singh, Seema Bawa |
| 6.     | Hybrid SGSA: Sexual GA and Simulated Annealing based Hybrid Algorithm or Grid Scheduling        | Global Journal of Computer Science & Technology, USA, Vol. 10, Issue. 9, Sep 2010, pp 78 -82.   | Bhupinder Singh, Seema Bawa |
| 7.     | Using LSI and its Variants in Text Classification   | Advanced Techniques in Computing Sciences and Software Engineering, Ed. Khaled Elleithy, Springer, pp. 313-316, 2010.   | Shalini Batra, Seema Bawa   |
| 8.     | Interoperability: Bridging the Gap  | International Journal of Computer Applications, Foundation of Computer Science (FCS), USA, Volume 7 No. 12, 2010, pp. 15-21   | Shashi, Seema Bawa          |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                               |
|--------|--|---|---|
| 9.     | Implementing Self-Protection in distributed grid environment   | SCPE, Scientific International Journal for Parallel and Distributed Computing, Volume 11, No 4, pp 373-383, Dec 2010  | Inderpreet Chopra, Maninder Singh                 |
| 10.    | Automating the fault tolerance process in Grid Environment   | International Journal of Computer Science and Information Security, Volume 8 No. 7, pp 224-230, Oct 2010  | Inderpreet Chopra, Maninder Singh                 |
| 11.    | An Efficient Scheduling Algorithm based on Dynamic Time Quantum for Grid Scheduler                   | International Journal of Information Sciences and Technology ISSN 0974-2255 vol. 2, No.3 23-26, 2010  | Tanu, Inderveer Chana                             |
| 12.    | Check pointing Algorithm in Alchemi.Net  | Pragyaan: Journal of Information and Technology 8, Issue 1 32-38 2010   | Neeraj Rathore, Inderveer Chana                   |
| 13.    | Multistage Interconnection Networks: A transition from Electronic to Optical                         | Journal of Emerging Technologies in Web Intelligence (JETWI) Special issue on Emerging Technologies in Internet Security and Networks Vol. 2, 142-147, 2010 | Rinkle Aggarwal Lakhwinder Kaur Himanshu Aggarwal |
| 14.    | A Theory Based on Conversion of RGB image to Gray image  | International Journal of Computer Applications, 7 (2), 7-10, 2010   | Tarun Kumar, Karun Verma                          |
| 15.    | Soft Computing Techniques: A comparison For Face Detection   | Pragyaan Journal of Information Technology, 8 (3), 20-25, 2010  | Tarun Kumar, Karun Verma                          |
| 16.    | Design and Reliability Analysis of a new Fault-tolerant Irregular Multistage Interconnection Network | International Journal of Computer Applications, Vol 10, Page No 1-5, 2010   | Karamjit Cheema; Mamta Ghai; Vinay Chopra;        |
| 17.    | Performance Analysis of Fault-tolerant Irregular Baseline Multistage Interconnection Network         | International Journal of Computer Science and Engineering, Vol 2, Page No 3079-3084, 2010.  | Karamjit Cheema; Mamta Ghai; Vinay Chopra;        |

## 2011

### List of research publications in SCI/Impact Factor journals

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                          |
|--------|---|--|--|
| 1.     | Automated Coin Recognition System using ANN   | International Journal of Computer Applications (IJCA), July 2011.  | Shatrughan Modi, Seema Bawa                  |
| 2.     | Query Processing  | International Journal of Computer Science and Information Technology, Academy and Industrial Research Collaboration Centre (AIRCC), ISSN: 0975-3826(online); 0975-4660 (Print), June 2011. | Vandana Jindal, Anil Kumar Verma, Seema Bawa |
| 3.     | Security in Wireless Sensor Networks using Frequency Hopping  | IJCA Vol.12, page1-5   | Gaurav;Suman; Tej Singh; A K Verma           |
| 4.     | TDS Generator : A Tool for generating synthetic Transactional Datasets for Association Rules Mining | IJCS Vol.8,2 Page184   | R B Patel; G S Bhamra; A K Verma             |
| 5.     | Analyzing the Social Networks using Block Modelling Technique                                       | CiiT International Journal of Data Mining and Knowledge Engineering, April Issue, 2011   | Shalini Batra                                |
| 6.     | COTS COMPONENTS USAGE   | International Journal of Information   | Amandeep Kaur, Shivani Goel                  |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                              |
|--------|---|---|--|
|        | RISKS IN COMPONENT BASED SOFTWARE DEVELOPMENT   | technology and Knowledge management, Vol.4, 573-575, 2011   |  |
| 7.     | Generation of UNL Attributes and Resolving Relations for Punjabi En converter                                     | Malaysian Journal of Computer Science (ISSN 0127-9084) Vol.24, No.1, March 2011: 34-46.                                   | Parteek Kumar and R. K. Sharma,                  |
| 8.     | Pluggable, interoperable and extensible (PIE): A grid portal for interoperability.                                | International Journal of the Physical Sciences, Volume 22, Issue 6 . Pages 5329 - 5344. Page-2011                         | Shashi, Seema Bawa                               |
| 1.     | Semantic discovery of Web services using Principal Component Analysis   | International Journal of the Physical Sciences, Vol. 6(18), pp. 4466-4472, 9 September, 2011.                             | Shalini Batra, Seema Bawa                        |
| 2.     | Network Security : Goals, Services and Mechanisms in Grid Computing Environments                                  | International Journal of Computer Applications IJCA Special Issue on CCNS 2011, Dec 2011.                                 | Ajay Kumar, Seema Bawa,                          |
| 3.     | Efficient Search Techniques in Peer to Peer Networks  | International Journal of Computer Applications 36(1) 31-38 2011   | Tarunpreet Bhatia; Deepak Garg                   |
| 4.     | Random Web Surfer Page Rank Algorithm   | International Journal of Computer Applications 35(11) 36-41 2011  | Haresh Kumar; Deepak Garg                        |
| 5.     | Multi-Objective Single Facility Location Problem: A Review  | International Review on Computers and Software 4(4) 1871-1875 2011  | Vaishali Wadhwa; Deepak Garg                     |
| 6.     | Comparative Analysis of Various Approaches Used in Frequent Pattern Mining  | International Journal of Advanced Computer Science and Applications Special Issue on Artificial Intelligence 141-147 2011 | Hemant Sharma; Deepak Garg                       |
| 7.     | Randomized algorithms methods and techniques  | International Journal of Computer Applications 28(11) 29-32 2011  | Kuldeep Sharma; Deepak Garg                      |
| 8.     | Computational Geometry for Continuous Resource Location Model in a Competitive Environment                        | International Journal of Computer Applications 27(5) 1-4 2011   | Monika Mangla; Deepak Garg                       |
| 9.     | Modelling and Analysis of Spiking Neural P Systems with Anti-spikes using Pnet Lab                                | Nano Communication Networks 2(2011) 141-149 2011  | Padmavati Mette; Kamala Krithivasan; Deepak Garg |
| 10.    | Spiking Neural P Systems with Anti-Spikes as Transducers  | Romanian Journal of Information Science and Technology 14(1) 20-30 2011   | Padmavati Metta; Kamala Krithivasan; Deepak Garg |
| 11.    | Capacity and interference aware link scheduling and channel assignment in wireless mesh networks                  | Journal of Network and Computer Applications 34:1, 30-38, 2011  | Kumar, N., Kumar, M. Patel, R.B.                 |
| 12.    | A framework for efficient enterprise resource planning (ERP) implementation in Technical Educational Institutions | African Journal of Business management, Vol No. 34, pp. 13197-13204, Dec 2011   | Shivani Goel, Ravi Kiran, Deepak Garg            |
| 13.    | A Survey of Various Workflow Scheduling Algorithms in Cloud Environment   | IJCA, No. 4, Dec. 2011, pp. 26-30   | Anju Bala, Dr. Inderveer Chana                   |
| 14.    | Design and Deployment of workflows in cloud environment   | IJCA, Vol-51, Aug. 2011, No. 11, pp. 9-15   | Anju Bala, Dr. Inderveer Chana                   |
| 15.    | Analysis of Mobile IP Protocols Security  | IJCA, Vol-46, 2012, No. 11, pp. 9-15  | Amit Gupta, Sumit Miglani, Maninder Singh        |

**List of research publications in Non-SCI/Non-Impact journals**

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors   |
|--------|--|--|---|
| 1.     | TUX-INTERO: A Portal for Secure Interoperation of Grids                                | International Journal of Engineering Science and Technology, Volume 7, Issue 2, pp 3335 – 3343             | Shashi, Seema Bawa  |
| 2.     | Evaluating Open Source Penetration Testing Framework in a University Campus            | Research Journal of Computer Systems and Engineering, ISSN: 2230-8563, pp 104-109, Vol2, Issue2, June 2011 | Gupreet Singh, V P Singh, Maninder Singh                    |
| 3.     | A Hybrid and enhanced Framework for Visualization and Analysis of Network Traffic Data | Research Journal of Computer Systems and Engineering, ISSN: 2230-8563, Vol2, Issue2, June 2011             | Nitin Prakash Verma, Maninder Singh                         |
| 4.     | Parametric Evaluation of Software Access point using Linux with Hardware Access Point  | Research Journal of Computer Systems and Engineering, ISSN: 2230-8563, Vol2, Issue2, June 2011             | Sukhvinder Singh, Maninder Singh                            |
| 5.     | A Novel Approach to Mine Frequent Item sets Using Maximal Apriori and FP-tree Method   | International Journal of Advanced Computing (IJAC) ISSN: 0975-7686, 3(2), pp. 74-78, 2011                  | Bharat Gupta; Karun Verma; Dr. Deepak Garg                  |
| 6.     | Improving Performance Of Randomized Signature Sort Using Hashing And Bitwise Operators | International Journal of Global Research in Computer Science, Vol. 2, pp. 16-20, 2011                      | Tamana Pathak; Dr. Deepak Garg                              |
| 7.     | An Evaluation of K-Center Problem Solving Techniques towards Optimality                | International Journal of Advancements in Technology, 2(2), pp. 206-214, 2011                               | Rattan Rana; Dr. Deepak Garg                                |
| 8.     | On String Languages Generated by SN P Systems with Anti-Spikes                         | International Journal of Foundations in Computer Science, Vol. 22, pp. 15-27, 2011                         | Venkata Padmavati Metta; Kamala Kritivasan; Dr. Deepak Garg |
| 9.     | Efficient String Sorting Algorithms: Cache-aware and Cache-Oblivious                   | International Journal of Soft Computing and Engineering (IJSCE), 1(2), pp. 12-16, 2011                     | Ritika Angrish; Dr. Deepak Garg                             |
| 10.    | Optimizing Integer Sorting in $O(\log(\log n))$ Expected Time in Linear Space          | journal of Information and Computing Technology by ISTAR, 1(2), pp. 40-44, 2011                            | Ajit Singh; Dr. Deepak Garg                                 |
| 11.    | Algorithms and Data Structures: Efficient and Cache-Oblivious                          | International Journal Of Advances In Soft Computing Technology, 1(2), pp. 12-16, 2011                      | Ritika Angrish; Dr. Deepak Garg                             |
| 12.    | Modelling Spiking Neural Activities of Brain with Object Oriented Petri nets           | International Journal of Advanced Computer Engineering and Architecture (IJACEA), 1(1), pp. 103-109, 2011  | Venkata Padmavati Metta; Kamala Kritivasan; Dr. Deepak Garg |
| 13.    | Algorithms for Content Distribution in Networks  | International Journal of Advanced Computer Science and Applications, 2(6), pp. 149-151, 2011               | Dr. Deepak Garg   |
| 14.    | Impact of Cloud Computing on ERP implementations in Higher Education                   | International Journal of Advanced Computer Science and Applications IJACSA, 2(6), pp. 146-148, 2011        | Shivani Goel; Ravi Kiran; Dr. Deepak Garg                   |
| 15.    | Implementation and Performance Analysis of Exponential Tree Sorting                    | International Journal of Computer Applications, 24(3), pp. 34-38, 2011                                     | Ajit Singh; Dr. Deepak Garg                                 |
| 16.    | Randomized Signature Sort: Implementation  | International Journal of Computer Applications, 24(3), pp. 1-5, 2010                                       | Tamana Pathak; Dr. Deepak Garg                              |
| 17.    | Survey of Finding Frequent Patterns in Graph Mining: Algorithms and Techniques         | International Journal of Soft Computing and Engineering, pp. 19-23, 3(1), 2011                             | Vijender Singh; Dr. Deepak Garg                             |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                |
|--------|---|--|------------------------------------|
| 18.    | Facility Location Problem Using Genetic Algorithm: A Review   | Research Journal of Computer Systems and Engineering – RJCSE, 2(2), pp. 63-66, 2011            | Vaishali Wadhwa; Dr. Deepak Garg   |
| 19.    | Parametric Maximum Flow Problem : Techniques and Algorithms   | International Journal of Computer Science and Communication, 2(2), 2011                        | Deepika Sareen; Dr. Deepak Garg    |
| 20.    | Framework for Key Management Scheme in heterogeneous WSN  | J. of Emerging Trends in web intelligence,2011   | R B Patel; Kamal Kumar; A K Verma  |
| 21.    | Blocking Behaviour Analysis of Optical switching Networks   | International Journal of Engineering Science and Technology (IJEST) Vol. 3, 1542-1550, 2011    | Tanvir Kaur<br>Rinkle Aggarwal     |
| 22.    | A Review of Deadlock Recovery Techniques  | Journal of Computer Science and Engineering Vol. 6, 1-8, 2011                                  | Nidhi Garg<br>Rinkle Aggarwal      |
| 23.    | Behaviour Analysis of Multilayer Multistage Interconnection Networks with Extra Stages                | International Journal of Applied Engineering Research Vol. 6, 1451-1462, 2011                  | Khushboo Bansal<br>Rinkle Aggarwal |
| 24.    | A Modified Buffered Adaptive Algorithm for Routing in optical Benes Network                           | International Journal of Computer Science and Information Technologies Vol. 2, 1603-1605, 2011 | Tanvir Kaur<br>Rinkle Aggarwal     |
| 25.    | Discrete Characterization of Domain Using Semantic Clustering   | Journal Of Advances In Information Technology, Vol. 1, pp. 127-132, 2011                       | Sanjay Madan, Shalini Batra        |
| 26.    | Image retrieval using SURF features and Annotated Data  | International Journal of Advanced Research in Computer Science, Vol. 2(3), pp. 121-124, 2011   | Ashish Kumar, Shalini Batra        |
| 27.    | Semantic Retrieval for Homonyms using RDF and SPARQL  | Journal of Global Research in Computer Science, Vol. 2(4), pp. 88-91, 2011                     | Amrita Bhandari, Shalini Batra     |
| 28.    | Facets of Software Component Repository   | International Journal on Computer Science and Engineering, Vol. 3 , 2473-2476, 2011            | Vaneet Kaur Bhatia , Shivani Goel  |
| 29.    | Testing Anomalies in Multiple and Multilevel Inheritance in Object-Oriented Systems                   | Int. J. of Computer and Communications, Vol.1, No.1, 1-14,2011                                 | Shubpreet Kaur, Shivani Goel       |
| 30.    | Importance of Quality Models in Commercial Off the Shelf Components Selection                         | International Journal of Software Engineering, Vol. 2 No. 2, 89-94, 2011                       | Ravneet Kaur, Shivani Goel         |
| 31.    | Designing of RIMCOTS model for Risk identification and Mitigation for COTS based Software Development | Research Journal of Computer Systems and Engineering, Vol. 2, No. 2, 83-88, June 2011          | Amandeep Kaur, Shivani Goel        |
| 32.    | Detecting Anomalies during Multiple Inheritance   | Journal of Global Research in Computer Science, Vol. 2, No. 5,37-42,2011                       | Shubpreet Kaur, Shivani Goel       |
| 33.    | Comparing Architecture based reliability models   | International Journal of Advanced Engineering Sciences and Technologies                        | Arpita Sharma, Shivani Goel        |



| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                  |
|--------|--|---|--------------------------------------|
|        |  | Vol No. 7, Issue No. 2, 298 - 300, 2011   |                                      |
| 34.    | Hindi Language Interface to Databases  | Journal of Global Research in Computer Science, April 2011, vol. 2, no. 4, pp. 107-112  | Himani Jain, Parteek Bhatia          |
| 35.    | Comparisons amongst different techniques for Conversion of Deterministic Finite Automata to Regular Expression | International Journal of Advanced Research in Computer Science, Vol. 2, Paper ID 1238, 2011   | Kulwinder Singh; Ajay kumar          |
| 36.    | A PaaS Technology to Build Workflow Based- Application   | IJAEST, Vol:7,212-216,2011  | Ravneet Kaur Chawla, Anju Bala       |
| 37.    | Autonomic Fault Tolerance Using HAProxy in Cloud Environment   | IJAEST, Vol:7,222-227,2011  | Vishonika Kaushal, Anju Bala         |
| 38.    | A Taxonomy of Classical Frequent Item set Mining Algorithms  | International Journal of Computer and Electrical Engineering 3(5) 695-699 2011  | Bharat Gupta; Deepak Garg            |
| 39.    | Improvement in RSA Cryptosystem  | Journal of advances in Information technology 2(3) 146-151 2011   | Seema Verma; Deepak Garg             |
| 40.    | FP-Tree Based Algorithms Analysis: FP-Growth, COFI-Tree and CT-PRO   | International Journal on computer science and Engineering 3(7) 2691-2699 2011   | Bharat Gupta; Deepak Garg            |
| 41.    | Comparison of Semantic and Syntactic Information Retrieval System on the basis of Precision and Recall         | International Journal of Data Engineering 2(3) 93-101 2011  | Sanchika Gupta; Deepak Garg          |
| 42.    | Semantic Web Mining of Un-structured Data: Challenges and Opportunities  | International Journal of Engineering 5(3) 268-276 2011  | Manoj Manuja; Deepak Garg            |
| 43.    | Comparative Evaluation of Predictive Modelling Techniques on Credit Card Data                                  | International Journal of Computer Theory and Engineering, Vol. 3, pp. 598-603, 2011   | Ravinder Singh; Rinkle Rani Aggarwal |
| 44.    | Challenges for Reuse in Web Engineering  | IRACST - International Journal of Computer Science and Information Technology & Security (IJCSITS), Vol. 1, No. 2, pp 133-135, Dec 2011 | Kshitij Goyal, Shivani Goel          |

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**List of research publications in SCI/Impact Factor journals**

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year                                   | Name of the authors         |
|--------|---|--|-----------------------------|
| 1.     | Virtualization of large-scale data Storage system to achieve dynamicity and Scalability in Grid computing | Advances in Intelligent and Soft Computing, ISSN: 1867-5662, Springer, SCI Indexed | Ajay Kumar, Seema Bawa      |
| 2.     | Comparative Analysis of dynamic graph techniques and data structure                                       | International Journal of Computer Applications 45(5) 41-46 2012                    | Megha Tyagi; Deepak Garg    |
| 3.     | Online Financial Algorithms: Competitive Analysis   | International Journal of Computer Applications 40(7) 8-14 2012                     | Sandeep Kumar; Deepak Garg  |
| 4.     | Gene finding using Hidden Markov Model  | Journal of Applied Sciences 12(15) 1518-1525 2012                                  | Srabanti Maji; Deepak Garg  |
| 5.     | Information retrieval on the web and its evaluation   | International Journal of Computer Applications 40(3) 26-31 2012                    | Deepika Sharma; Deepak Garg |
| 6.     | Comparison of Advance Tree Data   | International Journal of Computer  | Parth Patel; Deepak Garg    |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                     |
|--------|---|---|---|
|        | Structures  | Applications 41(2) 11-21 2012   |   |
| 7      | A framework for efficient enterprise resource planning implementation in technical educational institutions | African Journal of Business Management 5(3) 13197-13204   | Shivani Goel;Ravi Kiran; Deepak Garg    |
| 8      | Improved Edmond Karps Algorithm for Network Flow Problem  | International Journal of Computer Applications 37(1) 48-53 2012   | Chintan Jain Deepak Garg                |
| 9      | Analysis of the Depth First Search Algorithms   | CiiT International Journal of Data Mining Knowledge Engineering DMKE012012007 42-45 2012                      | Navnneet Kaur; Deepak Garg              |
| 10.    | String Matching Algorithms and their Applicability in various Applications                                  | International Journal of Soft Computing and Engineering 1(6) 218-222 2012                                     | Nimisha Singla; Deepak Garg             |
| 11.    | Formal QoS Policy based Grid Resource Provisioning Framework  | Journal of Grid Computing, March 2012, published by Springer, indexed by SCI, 249-264, Vol 10                 | Rajni and Inderveer Chana               |
| 12.    | Ontology based Cloud Framework  | International Journal of Computer Applications -Special Issue ACCTHPCA, 37-41                                 | Abhishek Kaushik and Inderveer Chana    |
| 13.    | Cloud Load Balancing Techniques: A Step Towards Green Computing   | International Journal of Computer Science Issues ( IJCSI ), Vol. 9, issue 1, 238-246                          | Nidhi Jain and Inderveer Chana          |
| 14     | Existing load balancing techniques in cloud computing: a systematic review                                  | Journal of Information Systems and Communication (JISC),87-91, Vol. 3   | Nidhi Jain and Inderveer Chana          |
| 15.    | A Survey of Various Workflow Scheduling Algorithms in Cloud Environment                                     | International Journal of Computer Applications- special issue NCICT, 26-30                                    | Anju Bala and Inderveer Chana           |
| 16.    | An Efficient Algorithm for Data Cleaning of Log File using File Extensions                                  | International Journal of Computer Applications (IJCA), Vol. 48, pp. 13-18, 2012                               | Surbhi Anand; Rinkle Rani Aggarwal      |
| 16.    | Reference Scan Algorithm for Path Traversal Patterns  | International Journal of Computer Applications (IJCA) , Vol. 48, pp. 20-25, 2012                              | Chintandeep Kaur ; Rinkle Rani Aggarwal |
| 17.    | An Efficient Algorithm for Web Page Change Detection  | International Journal of Computer Applications (IJCA) , Vol. 48, pp. 28-33, 2012                              | Srishti Goel; Rinkle Rani Aggarwal      |
| 18.    | A Modified Algorithm to Handle Dangling Pages using Hypothetical Node                                       | International Journal of Computer Applications (IJCA) , Vol. 48, pp. 26-32, 2012                              | Shipra Srivastava; Rinkle Rani Aggarwal |
| 19.    | Using Treaps for Optimization of Graph Storage  | International Journal of Computer Applications (0975 – 8887) Volume 41- No.14, March 2012                     | Dharya Arora Shalini Batra              |
| 20.    | Comparative Analysis of Relational And Graph Databases  | International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307, Volume- 2, Issue-2, May 2012 | Charu Tyagi Shalini Batra               |
| 21.    | A Novel Technique for Call Graph Reduction for Bug Localization   | International Journal of Computer Applications (0975 – 8887) Volume 41- No.14, March 2012                     | Prapdeep Singh Shalini Batra            |
| 22.    | Transformation from LEL to UML  | International Journal   | Megha and Shivani Goel                  |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                                  |
|--------|--|---|--|
|        |  | Of Computer Applications, Vol 48, June 2012, pp. 18-25  |  |
| 23.    | Punjabi to UNL en conversion system  | Springer: Sadhana, Academy Proceedings in Engineering Sciences, Vol. 37, No. 2, 299-318                                       | Parteek Kumar, R.K Sharma                            |
| 24.    | Tree structured encoding based multi-objective multicast routing algorithm                         | International Journal of Physical Sciences Vol. 7(10), pp. 1622 - 1632, 2 March, 2012   | Sushma Jain and J. D. Sharma                         |
| 25.    | Contribution of Software Process Improvement Approaches for Small and Medium Scale Enterprises     | International Journal of Computing and Corporate Research Volume 2 Issue 2 March 2012   | Nomi Baruah<br>Ashima Singh                          |
| 26.    | A Survey of the Use of Agile Methodologies in Different Indian Small and Medium Scale Enterprises. | International Journal of Computer Applications 47(20):38-44, June 2012  | Nomi Baruah<br>Ashima Singh                          |
| 27.    | Online Handwriting Recognition of Hindi Numerals using SVM   | International Journal of Computer Applications (0975 - 888), Volume 48(11), PP(13-17), June 2012                              | Deepika Wadhwa, Karun Verma                          |
| 28.    | Fault Tolerance- Challenges, Techniques and. Implementation in Cloud Computing                     | IJCSI, Vol. 9, Issue 1-3, pp. 288, Jan. 2012,   | Anju Bala, Dr. Inderveer Chana                       |
| 29     | CFM-PREFIXSPAN: A Pattern Growth Algorithm Incorporating Compactness And Monetary                  | International Journal of Innovative computing, Information and Control Volume 8, Number 7(A), 2012 pp. 4509-4520              | Bhawna Mallick, Deepak Garg, PS Grover               |
| 30.    | Formal QoS Policy based Grid Resource Provisioning Framework                                       | Journal of Grid Computing, Vol 10, No 2, pp. 249-264, June 2012, doi: 10.1007/s10723-012-9202, October 2012                   | Rajni, Chana Inderveer                               |
| 31.    | Ant Colony algorithms in MANETs: A Review  | Journal of Network and Computer Applications, 35:6, 1964-1972, 2012.  | Gurpreet Singh,<br>Neeraj Kumar,<br>Anil Kumar Verma |
| 32.    | Selection of Component Models: A Comparative view  | International Journal of Computer Engineering and Software Technology, Vol 3, No. 2, pp. 166-173, July-Dec 2012               | Jyotsna, Shivani Goel                                |
| 33.    | Web Page Categorization: Tools, Techniques and Evaluation  | International Journal of Advances in Computing and Information Technology, ISSN 2277-9140, Vol. 1, Issue-2, pp. 212-219, 2012 | K. Taneja, and<br>V. K. Bhalla                       |
| 34.    | Analysis the Performance of MANET Protocols by Varying the Number of Connections                   | International Journal of Mobile & Adhoc Network, ISSN 2231-6825, Vol. 2, issue 2, pp.185-191,2012                             | Shivender Taneja and Vinod K Bhalla                  |

#### List of research publications in Non-SCI/Non-Impact journals

| S. No. | Title of the paper            | Name of the Journal with volume, page nos., year   | Name of the authors     |
|--------|-------------------------------|--|-------------------------|
| 1.     | Evolution of Grid GIS Systems | International Journal of Computer Science and Telecommunications, Volume 3, Issue 3, March 2012. | Hari Singh, Seema Bawa, |
| 2.     | A Survey of Indian Machine    | International Journal of Computer  | Sitender, Seema Bawa,   |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                      |
|--------|--|---|--|
|        | Translation Systems  | Science and Technology, Vol. 3, Issue.1, Jan - Mar, 2012, ISSN : 0976-8491 (online), 2229-4333 (Print).   |  |
| 3.     | Virtualization of Large-Scale Data Storage System to Achieve Dynamicity and Scalability in Grid Computing, | Advances in Intelligent and Soft Computing, ISSN: 1867-5662, Springer, 233 SPRING STREET, NEW YORK, USA, NY, 10013. Springer, Vol. 167, page 323-331. | Ajay Kumar, Seema Bawa,                  |
| 4.     | Empirical Evaluations of Cloud based Testing Techniques: A Systematic Review                               | ACM SIGSOFT Software Engineering Notes  | Priyanka, Inderveer Chana and Ajay Rana; |
| 5.     | Comparative Analysis Of Webpage Change Detection Algorithms  | International Journal of Research in Engineering, Vol. 2, pp. 1382-1397, 2012   | Srishti Goel; Rinkle Rani Aggarwal       |
| 6.     | Web Mining Tasks And Types: A Survey   | International Journal of Research in IT, Vol. 2, pp. 547-558, 2012  | Chintandeep Kaur ; Rinkle Rani Aggarwal  |
| 7.     | Data Mining Types And Techniques: A Survey   | International Journal of Research in IT, Vol. 2, pp. 458-471, 2012  | Surbhi Anand ; Rinkle Rani Aggarwal      |
| 8.     | A Comprehensive Study of classification of NoSQL Databases   | Special Issue on Computing and Communication June 2012, International Journal of Computing and Business Research.                                     | Karamjit Cheema, Rinkle Aggarwal         |
| 9.     | Spatial Application of city using Oracle Spatial Database, Map Viewer, and Map Builder                     | International Journal of Soft Computing and Engineering (IJSCE), Vol. 1, No. 4 28-31  | Dipti Sharma; Parteek Kumar              |
| 10.    | English to Hindi Statistical Machine Translation   | International Journal of Advances in Computer Networks and Security Vol. 1, No. 1, 362-366  | Nakul Sharma; Parteek Kumar              |
| 11.    | Comparative study of text to speech system for Indian language   | International Journal of Advances in Computing and Information Technology Vol. 1, No. 2 199-209   | Shruti Gupta; Parteek Kumar              |
| 12.    | A Speech-to-Text System  | CSI Communications Vol. 36, No. 2 18-21   | Nishant Allawadi; Parteek Kumar          |
| 13.    | Issues And Challenges in Integration of Agile Processes to Traditional Software Process Models             | International Journal of Research in Engineering & Applied Sciences. Vol. 2 issue 2,1103-1109, Feb 2012.  | Harsh Taneja Ashima Singh                |
| 14.    | A Rigorous Study of Software Process Improvement Models in Software Industry                               | International Journal of Research in Engineering & Applied Sciences, Vol. 2 issue 2,1144-1153, Feb 2012   | Nomi Baruah Ashima Singh                 |
| 15.    | Agile Software Development And Reusability   | International Journal of Research in Engineering & Applied Sciences, Vol. 2 issue 2,1144-1153, Feb 2012   | Nomi Baruah Ashima Singh                 |
| 16.    | Power Management Techniques in Wireless Sensor Networks  | International Journal Of Advances In Computing And Information Technology, P(220-), April, 2012   | Suchate Sandal, Karun Verma              |
| 17.    | Survey on Graphical Methods for Test Case Generation   | International Journal of Mobile & Adhoc Network (IJMAN), vol. 2, issue 2, pp. 257-264, May 2012   | Shveta Verma, Vinay Arora                |
| 18.    | Survey on Dynamic Slicing Techniques for Object-Oriented Programs  | International Journal of Mobile & Adhoc Network (IJMAN), vol. 2, issue 2, pp. 233- 239, May 2012  | Mehak Jindal, Vinay Arora                |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                              |
|--------|--|--|--|
| 19.    | Architecture of Gurmukhi to Braille conversion system  | IRACST - International Journal of Computer Science and Information Technology & Security (IJCSITS), ISSN: 2249-9555 Vol. 2, No.2, April 2012 | Vandana Pushe, Rupinderdeep Kaur                 |
| 20.    | Implementation of Gurmukhi to Braille  | International Journal on Computer Science and Technology (IJCST) ISSN:2229-4333  | Vandana Pushe, Rupinderdeep Kaur                 |
| 21.    | Issues Involved in Speech to Text Conversion   | International Journal Of Computational Engineering Research / ISSN: 2250-3005  | Jaspreet Kaur, Rupinderdeep Kaur                 |
| 22.    | Architecture of the Transliteration System from ENGLISH to PUNJABI using Hybrid approach               | IRACST - International Journal of Computer Science and Information Technology & Security (IJCSITS), ISSN: 2249-9555 Vol. 2, No.2, April 2012 | Sukhnandan Kaur, Rupinderdeep Kaur               |
| 23.    | Unexplored aspects in the transliteration of ENGLISH to PUNJABI  | IOSRJEN, Vol.1 Issue 1, pp. 106-110  | Sukhnandan Kaur, Rupinderdeep Kaur               |
| 24.    | A Step towards Making an Effective Text to speech Conversion System                                    | International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622, Vol. 2, Issue 2, Mar-Apr 2012                        | Sheilly Panda, Rupinderdeep Kaur                 |
| 25.    | Architecture and Implementation of Punjabi Text to Speech System Using Transcriptions Concept          | IJERD  | Sheilly Panda, Rupinderdeep Kaur                 |
| 26.    | Development of mobile application for transliteration of roman script to Gurmukhi script.              | International journal of computational linguistics and natural language processing(IJCLNLP),Vol. 1, issue 1, Aug 2012                        | Maninder singh, Parteek Kumar, Rupinderdeep Kaur |
| 27.    | Key features of research portal for stimulating research in institutions of higher technical education | EGITIM ARASTIRMALARI-EURASIAN JOURNAL OF EDUCATIONAL RESEARCH, Vol. 48, No. 12, pp. 155-174, 2012  | Parul Dharmani Ravi Kiran, Anil K Verma          |
| 28.    | Simulation and analysis of AODV routing protocol in VANET  | International Journal of Soft Computing and Engineering, Vol. 2, No. 3, 293-301, July 2012   | Tajinder Kaur, K Cheema, Anil K Verma            |
| 29.    | Agent enriched distributed association rules mining- A review  | Agents and Data Mining Interaction-LNCS, Vol. 7103, pp. 30-45, 2012  | G S Bhamra, R B Patel, Anil K Verma              |
| 30.    | Simulation and analysis of dropped packets for DSR protocol in VANET                                   | International Journal of Computing, Intelligent and Communication Technologies, Vol. 1, No. 1, Oct 2012                                      | Avleen Kaur, Anil K Verma                        |
| 31.    | Simulation and Comparison of AODV and DSR Routing Protocols in VANETS                                  | International Journal of Computing, Intelligent and Communication Technologies, Vol. 1, No. 1, Oct 2012                                      | Tajinder Kaur, Avleen Kaur, Anil K Verma         |
| 32.    | Conceptual and Semantic measures for cohesion in Software Maintenance                                  | International Journal of computer applications (IJCA),USA, Vol. 47, No. 22, pp. 40-45, 2012.   | Ashutosh Mishra and Vinayak Srivastava           |
| 33.    | Extracting a knowledge from source code comprehension using data mining                                | Int. J. knowledge Engineering and Data mining, InderScience Publication,   | Ashutosh Mishra and Vinayak Srivastava           |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors   |
|--------|--|--|---|
|        | methods  | UK, Vol. 2, NOS. 2/3, 2012   |   |
| 34.    | Intelligent Computing Methods for Software Maintenance: a Review                                 | Journal of Software Engineering and Technology, Vol. 4, issue 1, pp.1-12, 2012                                     | Ashutosh Mishra and Vinayak Srivastava                          |
| 35.    | Data mining methods for Program Comprehension  | International Journal on Computer Science and Technology (IJCST), Vol. 3, issue- 2, pp. 110-116, 2012.             | Ashutosh Mishra and Vinayak Srivastava                          |
| 36.    | Design and Deployment of Workflows in Cloud Environment  | IJCA Vol. No: 51 Issue 11 pp:9-15, August 2012   | Anju Bala and Inderveer Chana                                   |
| 37.    | Computation of Pheromone Values in AntNet Algorithm  | International Journal of Computer Network and Information Security, Vol. 9, pp. 47-54, Aug 2012                    | Anuj Gupta, H Sadawarti, Anil K Verma                           |
| 38.    | Simulation and analysis of DSR protocol in VANETs  | International Journal of Research in Computer and Communication Technology Vol. 1 No. 3, pp. 50-59, Aug. 2012      | Avleen Kaur, Anil K Verma                                       |
| 39     | SNMP, ICMP: A Collaborative Approach to Network Discovery and Monitoring                         | International Journal of Smart Sensors and Ad Hoc Networks (IJSSAN) ISSN No. 2248-9738 Volume-1, Issue-3, 2012     | Aman Mahajan, Sahil Khajuria, Haresh Joshi, Anil K Verma        |
| 40.    | Vulnerability Management for an Enterprise Resource Planning System                              | International Journal of Computer Applications, ISSN: 0975 – 8887, Vol. 53, No. 4, September 2012, pp. 19-22       | Shivani Goel, Ravi Kiran, Deepak Garg                           |
| 41.    | Development of Mobile Application for Transliteration of Roman Script to Gurmukhi Script,        | International Journal of Computational Linguistics and Natural Language Processing, Vol. 1, No. 1, Aug 2012: 6-11. | Maninder Singh, Parteek Kumar, Ms. Rupinderdeep Kaur            |
| 42.    | Botnet-based Distributed Denial of Service (DDoS) Attacks on Web Servers: Classification and Art | International Journal of Computer Applications, Vol. 49, no. 7, pp. 24-32, 2012                                    | E. Alomari, S. Manickam, B. B. Gupta, S. Karuppayah, R. Alfaris |
| 43.    | Workflow Management in Cloud Computing   | IJAIS, Vol. no:4, page no: 21-26., Oct.2012  | Monika Bharti, Anju Bala  |
| 44.    | Evaluation of Flow Graph and Dependence Graphs for Program Representation                        | International Journal of Computer Applications, Vol. 56, Issue.14, pp. 18-23, October 2012                         | Vinay Arora, Rajesh Kumar Bhatia, Maninder Singh                |

**List of research publications in SCI/ Impact journals 2013**

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year                                   | Name of the authors                             |
|--------|--|--|---|
| 1.     | Software clone detection: A systematic review                              | Information and Software Technology Volume 55, Issue 7, July 2013, Pages 1165-1199 | Dhavleesh Rattan, Rajesh Bhatia, Maninder Singh |
| 2.     | Publish/subscribe based information dissemination over VANET utilizing DHT | Frontiers of Computer Science December 2012, Volume 6, Issue 6 pp 713-724          | Tulika Pandey, Deepak Garg, Manoj Madhav Gore   |
| 3.     | Progress in gene prediction: Principles and challenges                     | Current Bioinformatics Apr 2013, Vol. 8, No. 2                                     | Srabanti Maji, Deepak Garg                      |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors   |
|--------|--|--|---|
| 4.     | Progressive CFM-Miner: An Algorithm to Mine CFM- Sequential Patterns from A Progressive Database                                       | International Journal of Computational Intelligence Systems Vol. 6, No. 2 Mar, 2013, 209-222 | Bhawna Mallick, Deepak Garg, P S Grover                           |
| 5.     | Incremental Mining of Sequential Patterns: Progress and Challenges   | Intelligent Data Analysis- an International Journal, , Volume 17, Number 3, May 2013         | Bhawna Mallick, Deepak Garg, PS Grover                            |
| 6.     | Hidden markov model for splicing junction sites identification in DNA sequences,   | Current Bioinformatics Vol. 8 Issue 3 pp. 369-379, 2013                                      | Srabanti Maji and Deepak Garg                                     |
| 7.     | Predictors of User Satisfaction in ERP in Technical Educational Institutions   | Information, An International Interdisciplinary Journal, pp.2885-2894 Vol.16, No.5           | Shivani Goel, Ravi Kiran, Deepak Garg                             |
| 8.     | Ant colony algorithms in MANETs: A review  | Journal of network and computer applications   | Gurpreet Singh, Neeraj Kumar, Anil K Verma                        |
| 9.     | Knowledge sharing for stimulating learning environment in institutions of higher technical education                                   | Technics Technology Education Management, 7(4), 1681-1691                                    | Parul Dharmani, Ravi Kiran, Anil K Verma                          |
| 10.    | Network partitioning recovery mechanisms in WSANs: A survey  | Wireless personal communications, Vol. 72, No. 2, pp., 857-917                               | Virendra Ranga, M Dave, Anil K Verma                              |
| 11.    | On the Security of Certificate less Signature Schemes  | International Journal of Distributed Sensor Networks, 2013                                   | Gaurav Sharma, Suman Bala, Anil K Verma                           |
| 12.    | QoS based Resource Provisioning and Scheduling in Grids  | Journal of Supercomputing, Springer , DOI 10.1007/s11227-013-0903-1, March 2013              | Aron R., Chana I.   |
| 13.    | Bacterial Foraging based Hyper-heuristic for Resource Scheduling in Grid Computing   | Future Generation Computer Systems (FGCS Vol. 29, No 3, pp. 751-762,) Elsevier, March 2013   | Rajni, Chana Inderveer  |
| 14.    | A Systematic Review of A Systematic Review on Clustering and Routing Techniques based upon LEACH Protocol for Wireless Sensor Networks | Journal of Network and Computer Applications, 36:2, 623-645                                  | Sudhanshu Tyagi, Neeraj Kumar                                     |
| 15.    | Load Balancing and Adaptive Scheduling for Data Intensive Prioritized Traffic in Wireless Mesh Networks                                | International Journal of Ad hoc and Ubiquitous Computing, 12: 1, 3-13.                       | Neeraj Kumar, Naveen Chilamkurti, John Hyuk Park, Doo- Soon Park  |
| 15.    | Predictors of User Satisfaction in TELs  | Information- An Interdisciplinary Journal, Vol. 16 No. 5 pp.2885-2894, May 2013              | Shivani Goel, Ravi Kiran, Deepak Garg                             |
| 16.    | Punjabi DeConverter for generating Punjabi from Universal Networking Language,   | Springer: Journal of Zhejiang University SCIENCE C, Vol. 14 No. 3, March 2013: 79-196.       | Parteek Kumar, R.K. Sharma  |
| 17.    | A Survey of Phishing Email Filtering Techniques  | IEEE Communications Surveys & Tutorials, vol. PP, issue 99                                   | A. Almomani, B. B. Gupta, S. Atawneh, A. Meulenberg, E. Almomani, |

**List of research publications in Non-SCI/Non-Impact journals**

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                            |
|--------|---|--|--|
| 1.     | Virtualization of Large-Scale Data Storage System to Achieve Dynamicity and Scalability in Grid Computing   | Advances in Intelligent and Soft Computing, ISSN: 1867-5662, Springer, 233 SPRING STREET, NEW YORK, USA, NY, 10013. Springer, Vol. 167, page 323-331 | Ajay Kumar, Seema Bawa,                        |
| 2.     | A Survey of Search and Retrieval of Components from Software Repositories   | International Journal of Engineering research and Technology, ISSN: 2278 - 0181, Vol. 2, Issue 4, April 2013.  | Amandeep Bakshi, Seema Bawa                    |
| 3.     | Classification of Symmetric Key Management Schemes for Wireless Sensor Networks-Extended  | International Journal of Security and its Application, Vol. 7. No. 2, Mar 2013   | Suman Bala, Gaurav Sharma, Anil K Verma        |
| 4.     | MFZLP: Multi hop Far Zone Leach Protocol for WSNs   | Journal of Computational Intelligence and Electronic Systems, Vol. 2, No. 1, pp. 45-49, 2013   | Virender Ranga; Mayank Dave; Anil K umar Verma |
| 5.     | Implementation of DYMO routing protocol   | International Journal of Information Technology, Modeling and Computing, Vol. 1, No. 2, pp. 49-57, May 2013  | Anuj K. Gupta, Harsh Sadawarti, Anil K. Verma  |
| 6.     | Security Issues in Manet: A Survey on Attacks and Defence Mechanisms  | International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 3, No. 6, pp. 1382-1394, Jun 2013                      | T Bhatia, Anil K Verma                         |
| 7.     | Performance Analysis of MANETS Routing Protocols in Different Mobility Models   | International Journal of Information Technology and Computer Science, Vol. 6, May 2013   | K Gupta Anuj, Harsh Sadawarti, Anil K Verma    |
| 8.     | Knowledge Management Role of Thought Leaders and Junior Academia in Enhancing Research and Curriculum in Institutions of Higher Technical Education | SAGE Open, pp. 1-13, June 2013   | Ravi Kiran, Parul Agarwal, Anil K Verma        |
| 9.     | How the Two Wireless Networks Can Be Different: WSNS and VANETS   | Journal of Basic and Applied Scientific Research, 2013   | Vandana Jindal, A.K.Verma, Seema Bawa          |
| 10.    | Multi-Core Scheduling in Cloud Computing,   | International Journal of Applied Information Systems (IJ AIS) - ISSN : 2249-0868, Volume 4- No. 9  | Abhishek Kaushik and Inderveer Chana,          |
| 11.    | Heterogeneous Workload Consolidation for Efficient Management of Data Centers in Cloud Computing"   | International Journal of Computer Applications, IJCA Journal, pp.13-17, Vol. 50, No 10 Year of Publication: 2013                                     | Deep Mann and Inderveer Chana,                 |
| 12.    | Empirical Evaluation of Cloud-based Testing Techniques: A Systematic Review   | International Journal of Computer Information Systems and Industrial Management Applications, pp. 466 - 473 ,Vol. 6                                  | Priyanka, Inderveer Chana and Ajay Rana        |
| 13.    | Existing Load Balancing Techniques in Cloud Computing : A Systematic Review   | International Journal in Foundations of Computer Science & Technology(IJFCST), Volume 3, No.3, May, 2013   | Kansal J. N., Chana I.                         |
| 14.    | Fault Tolerance- Challenges, Techniques and Implementation in   | International Journal of Cloud Computing and Services Science (IJ-   | Anju Bala, Inderveer Chana                     |



| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                    |
|--------|--|--|--|
|        | Cloud Computing  | CLOSER), Vol.2, No.2, pp. 123~133, ISSN: 2089-3337.  |  |
| 15.    | Cloud Load Balancing Techniques: A Step Towards Green Computing  | International Journal of Cloud Computing and Services Science (IJ-CLOSER), pp. 291~302, Vol.2, No.1,                                 | Kansal J. N., Chana I.                 |
| 16.    | An Enhanced Run Length Coding for JPEG Image Compression   | International Journal of Computer Applications , 72(20), 2013  | Amritpal Singh, V. P Singh             |
| 17.    | Adaptive Distributed Intrusion Detection using Hybrid k-means SVM Algorithm                                | International Journal of Enhanced Research in Management & Computer Applications, Vol. 2 Issue 6, June-2013, pp: (10-14),            | V. P. Singh, Parneet Kaur              |
| 18.    | Steganography : A modern day Art and Science for Data Hiding   | International Journals of latest research in Science and Technology (IJLRST), Volume 2 Issue 4 ,2013 (Accepted)                      | Roopam Bansal and V. P. Singh          |
| 19.    | Modelling and Querying Data in MongoDB   | International Journal of Scientific and Engineering Research, Vol. 4, No. 2, pp. 141-144   | Rupali Arora<br>Rinkle Aggarwal        |
| 20.    | Implementation of relation queries in graph databases  | International Journal on Information & Communication Technologies ,Vol. 6, No.1, pp.354-357  | Rupali Arora<br>Rinkle Aggarwal        |
| 21.    | Simulating wireless sensor networks using opnet  | International Journal on Information & Communication Technologies, Vol. 6 no.1 pp. 366-371   | Abhinandan Gupta<br>Rinkle Aggarwal    |
| 22.    | Design and Performance Evaluation of a New Irregular Fault-Tolerant Multistage Interconnection Network     | International Journal of Computer Science Issues Vol. 9, No. 2, pp. 108-113  | Rinkle Aggarwal                        |
| 23.    | Design and Reliability Analysis of a Class of Irregular Fault-tolerant Multistage Interconnection Networks | International Journal of Computer Applications Vol. 39, No.8, pp. 8-14   | Rinkle Aggarwal                        |
| 24.    | An Efficient Algorithm for Data Cleaning of Log File using File Extensions                                 | International Journal of Computer Applications Vol. 48, No.8, pp. 13-18  | Surbhi Anand<br>Rinkle Aggarwal        |
| 25.    | Reference Scan Algorithm for Path Traversal Patterns   | International Journal of Computer Applications Vol. 48, No.7, pp. 20-25  | Chintandeep Kaur<br>Rinkle Aggarwal    |
| 26.    | An Efficient Algorithm for Web Page Change Detection   | International Journal of Computer Applications Vol. 48, No.10, pp. 28-33   | <b>Srishti Goel</b><br>Rinkle Aggarwal |
| 27.    | A Modified Algorithm to Handle Dangling Pages using Hypothetical Node                                      | International Journal of Computer Applications Vol. 48, No.7, pp. 26-32  | Shipra Srivastava<br>Rinkle Aggarwal   |
| 28.    | A Short Survey of Key Distribution Techniques for Namespace Load Balancing                                 | International Journal of Emerging Technologies in Computational and Applied Sciences, Issue 4, Vol. 1, 2 & 3, pp. 532-536, May, 2013 | Ravneet Kaur, Shalini Batra            |
| 29.    | Phases of Testing An Online Application  | International Journal of Advanced Research in Computer Science and Software Engineering, Vol 3, No. 6,                               | Sandeep Singh and Shivani Goel         |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                                       |
|--------|---|--|---|
|        |   | June 2013  |   |
| 30.    | Testing Techniques for COTS   | International Journal of Advanced Research in Computer Science and Software Engineering, Vol 3, No. 4, pp. 829-833, April 2013                     | Jagdeep Singh and Shivani Goel                            |
| 31.    | COTS and OSS: A Comparative View  | The International Journal of Computer Science and Applications Vol 1, No. 12, pp. 55-59, Feb 2013  | Jagdeep Singh and Shivani Goel                            |
| 32.    | UNL-ization of Numbers and Ordinals in Punjabi with IAN,  | International Journal on Natural Language Computing (IJNLC), Vol. 2, No. 3, June 2013: 61,69.  | Vaibhav Agarwal, Parteek Kumar                            |
| 33.    | NLization of Nouns, Pronouns and Prepositions in Punjabi With EUGENE,   | International Journal on Natural Language Computing (IJNLC), Vol. 2, No. 2, April 2013: 33,42  | Ashutosh Verma, Parteek Kumar                             |
| 34.    | Optimization of Hamilton Path Tournament Schedule   | International Journal of Advanced Research in Computer Engineering & Technology, Volume 2 Issue 6 of (ISSN: 2278-1323) , 2013                      | Trinetra Kumar Pathak and Vinod K. Bhalla                 |
| 35.    | Android Internals   | International Journal of Advanced Research in Computer Science and Software Engineering," Vol. 3, Issue 6, pp. 143-147, 2013                       | Vaibhav Kumar Sarkania, Vinod Kumar Bhalla                |
| 36.    | ANN Based Scheme to Predict Number of Zombies involved in a DDoS Attack   | International Journal of Network Security (IJNS), vol. 14, no. 1, ISSN 1816-3548, pp. 36-45  | B. B. Gupta, R. C. Joshi, Manoj Misra                     |
| 37.    | Phishing Dynamic Evolving Neural Fuzzy Framework for Online Detection "Zero-day" Phishing Email,                      | Indian Journal of Science and Technology, Vol. 6, issue 1, pp. 1-5 (ISI Thomson Router)  | A. Almomani, B. B. Gupta, T. Wan, A. Altaher, S. Manickam |
| 38.    | Predicting Number of Zombies in DDoS Attacks Using Pace Regression Model  | Journal of Computing and Information Technology (CIT) , Vol. 20, no. 1, ISSN 1846-3908, pp. 1-8  | B. B. Gupta   |
| 39.    | Enhanced CBF Packet Filtering Method to Detect DDoS Attack in Cloud Computing Environment                             | International Journal of Computer Science Issues(IJCSI), vol. 10, issue 2, pp. 142-146   | P. Negi, a. Mishra, B. B. Gupta                           |
| 40.    | Mutation Operators corresponding Conditions Contributing in Deporting them Equivalently                               | Vol. 4(2), 656-658, 2013 IJCST   | Tannu Singala Ajay Kumar                                  |
| 41.    | Rule based Normalization of Regular Expressions   | International Journal of Advanced Research in Computer Science and Software Engineering, 3(5), 2013  | J. S. Khedar, Ajay Kumar                                  |
| 42.    | Ambiguity detection algorithm for context free grammar  | IJCST, 4(3), 2013  | S. K. Jain, Ajay Kumar                                    |
| 43.    | Text to Speech Synthesis for numerals into Punjabi Language   | International Journal of Computational Linguistics and Natural Language Processing Vol 2 Issue 7 July 2013   | Karun Verma, Maninder Singh                               |
| 44.    | Automatic Fragmentation and Storage of Code in Component Repository w.r.t. their Input and Output Interfaces: A Tool" | International Journal of Innovative Technology and Exploring Engineering (IJITEEM) ISSN: 2278-3075, Volume-2, Issue-3, Page: 235-238 February 2013 | Pankaj Vohra Ashima Singh                                 |
| 45.    | A Tool incorporation different Techniques for Effective Component   | International Journal. of Scientific and Engineering Research, vol. 4, no. 7, pp.  | Pankaj Vohra Ashima Singh                                 |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                          |
|--------|--|--|--|
|        | Storage and Retrieval  | 1134-1137, 2013.   |  |
| 46.    | Iterative and Non-Iterative Approaches for Architecture Based Software Development | CiiT International Journal of Software Engineering and Technology Vol. 5, January 2013   | Navneet Rathour<br>Ashima Singh              |
| 47.    | Generating More Reusable Components while Development: A Technique                 | International Journal of Innovative Technology and Exploring Engineering(IJITEE) Volume-2 Issue-3, 2013                          | Navneet Rathour<br>Ashima Singh              |
| 48.    | A Complexity Metric for Black Box Components                                       | International Journal of Soft Computing and Engineering Volume-3 Issue-2, ,10,179-184, June 2013                                 | Navneet Rathour<br>Ashima Singh              |
| 49.    | A Technique for Component Based Software Development                               | International Journal of Computer Science and Engineering ( IJCSE ) Volume-2, Issue 2, 123-134, May 2013                         | Navneet Rathour<br>Ashima Singh              |
| 50.    | Component Complexity Metrics: A Survey   | International Journal of Advanced Research in Computer Science and Software Engineering, vol. 3, no. 6,pp. 1056-1061, June 2013  | Navneet Rathour<br>Ashima Singh              |
| 51.    | A metric for Assessing Black Box Component Reusability                             | International Journal of Scientific and Engineering Research, Vol. 4 ,no. 7, pp. 1114-1121, 2013                                 | Navneet Rathour<br>Ashima Singh              |
| 52.    | Autonomic Data Replication in Cloud Environment                                    | IJECSE, Vol.2, page no: 459-464, Jan,2013  | Dhananjya Gupta,<br>Anju Bala                |
| 53.    | Autonomic Fault Tolerant Framework for Web Applications                            | IJCST Vol. 4, Issue 2,pp: 528-533 April - June 2013  | Dhananjya Gupta,<br>Anju Bala                |
| 54.    | An Emerging approach towards Clone Detection: Metric based Approach on byte code.  | International Journal of Advance Research in Computer Science and Software Engineering, Vol 3, pp:881-888, May 2013              | Kanika Raheja and<br>Rajkumar<br>Tekchandani |
| 55.    | Literature Analysis on Model based Slicing   | International Journal of Computer Applications, Vol. 70, Issue.16, pp. 45-51, May 2013   | Rupinder Singh,<br>Vinay Arora               |
| 56.    | Technique for Extracting Subpart from UML Sequence Diagram                         | International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 3, Issue 6, pp. 593-596, June 2013 | Rupinder Singh,<br>Vinay Arora               |
| 57.    | Use of Semantic Relatedness for Intelligent Access to Cultural Information         | International Journal of Computer Applications, Volume 64 – No. 15, February 2013, pp. 21-28                                     | Harkiran Kaur,<br>Dr. Seema Bawa             |
| 58.    | Creating Digital Archives of Ancient Scriptures using CAPTCHAs                     | International Journal of Computer Applications, Volume 64 – No. 15, February 2013, pp. 29-37                                     | Harkiran Kaur,<br>Dr. Seema Bawa             |

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**List of research publications in SCI/Impact Factor journals**

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                         |
|--------|--|--|---|
| 1.     | Load Balancing and Job Migration Algorithm : Survey of Recent Trends | Wireless Personal Communication, Springer Publication, Volume 79, Issue 3, ISSN print 0929-6212, ISSN online 1572-834X, pp: 2089-2125, 2014 [Impact Factor: 0.979] | Neeraj Kumar Rathore and<br>Inderveer Chana |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                          |
|--------|--|--|--|
| 2.     | A Novel Strategy for Automatic Test Data Generation Strategy using Soft Computing Technique                                    | Frontiers of Computer Science, Springer, Sep 2014 (DOI 10.1007/s11704-014-3496-9) [Impact Factor:.405]             | Priyanka Chawla, Inderveer Chana, Ajay Rana  |
| 3.     | QoS-Aware Data Dissemination for Dense Urban Regions in Vehicular Ad Hoc Networks  | Mobile Network and Applications, Springer, (SCI Indexed, Impact factor 1.496) , Dec 2014                           | Amit Dua, Neeraj Kumar, Seema Bawa           |
| 4.     | An Improved Algorithm for the Metamorphosis of Semi-Extended Regular Expressions to Deterministic Finite Automata              | The Computer Journal 10.1093/comjnl/bxu049doi, 2014  | Ajay Kumar and Anil Kumar Verma              |
| 5.     | Improvement in Rebalanced CRT RSA  | International Arab Journal of Information Technology (IAJIT) to be published in 2014, ID-5492, Impact Factor: 0.39 | Seema Verma Deepak garg;;                    |
| 6.     | Selectivity Estimation of range queries in Data Streams using Micro-clustering   | International Arab Journal of Information Technology (IAJIT) to be published in 2014, ID-5856, Impact Factor: 0.39 | Sudhanshu Gupta; Deepak garg;                |
| 7.     | Who Regulates Ethics in Virtual world?   | Science and engineering ethics Volume 21, no. 1 (2014): pp. 19-28.   | Seemu Sharma;Hitashi Lomash; and Seema Bawa  |
| 8.     | Conversion of Parallel Regular Expressions to Non-deterministic Finite Automata using Partial Derivatives                      | Chiang Mai Journal of Science Volume 41(5), pp. 1409-1418, 2014  | Ajay Kumar; Anil Kumar Verma;                |
| 9.     | A Novel Algorithm for the Conversion of Parallel Regular Expressions to Non-deterministic Finite Automata                      | Applied Mathematics, Volume 8(1), pp. 95-105, 2014   | Ajay Kumar; Anil Kumar Verma;                |
| 10.    | Reducing Mutation Testing Endeavour using the Similar Conditions for the same Mutation Operators Occurs at Different Locations | Applied Mathematics, Volume 8(5), pp. 2389-2393, 2014  | Tannu Singla;Ajay Kumar;Sunita Garhwal;      |
| 11.    | A Hybrid Timer Based Single Node Failure Recovery Approach for WSAWs   | WPC, Springer, Volume 77 pp. 2155-2182, 2014   | V Ranga;M Dave; and Anil Verma               |
| 12.    | OANTALG: An Orientation based ANT colony ALGORITHM for Mobile Adhoc Networks   | WPC, Springer, Volume 77 pp. 1859-1884, 2014   | G SINGH;N KUMAR; Neeraj Kumar and Anil Verma |
| 13.    | ANTALG: An Innovative ACO based Routing Algorithm for MANETs   | JNCA, Volume 45 151-167, 2014  | G SINGH;N KUMAR; Neeraj Kumar and Anil Verma |
| 14.    | Hybrid Approach using SVM and MM2 in Splice Site Junction Identification   | Current Bioinformatics, Volume 9(1) pp. 76-85, 2014  | Srabanti Maji; and Deepak Garg               |
| 15.    | Structured P2P Overlay of Mobile Brokers for Realizing Publish/Subscribe Communication in VANET                                | The Scientific World Journal, Volume 2014 (2014), ID 136365,http://dx.doi.org/10.1155/2014/136365                  | Tulika Pandey; M M Gore; and Deepak Garg     |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors  |
|--------|--|---|--|
| 16.    | Anticipatory Bound Selection Procedure (ABSP) for Vertex K-center Problem  | International Arab Journal of Information Technology Volume 11 No 5, 2014                     | Rattan Rana; and Deepak Garg                                 |
| 17.    | Cloud based intelligent system for delivering health care as a service   | Computer Methods and Programs in Biomedicine, Springer, Volume 113, pp. 346-359, 2014         | Pankajdeep Kaur; and Inderveer Chana                         |
| 18.    | A resource elasticity framework for QoS-aware execution of cloud applications  | FGCS, Volume 37, pp. 14-35, 2014  | Pankajdeep Kaur; and Inderveer Chana                         |
| 19.    | Variable Threshold Based Hierarchical Load Balancing Technique in Grid   | Engineering with computers, Springer, Volume 30, 2014   | Neeraj Rathore; and Inderveer Chana                          |
| 20.    | Artificial bee colony based energy-aware resource utilization technique for cloud computing                                    | CONCURRENCY AND COMPUTATION: PRACTICE AND EXPERIENCE,, Volume 24, DOI: 10.1002/cpe.3295, 2014 | Nidhi Jain Kansal; and Inderveer Chana                       |
| 21.    | Job Migration with Fault Tolerance and QoS Scheduling using Hash Table Functionality in Social Grid Computing                  | Journal of Intelligent and Fuzzy Systems, Volume 26, pp. 21-35, 2014                          | Neeraj Rathore; and Inderveer Chana                          |
| 22.    | SHAPÉ: an approach for self-healing and self-protection in complex distributed networks  | The Journal of Supercomputing, Volume 67, pp. 585-613, 2014                                   | Inderpreet Chopra; and Maninder Singh                        |
| 23.    | Software clone detection: a systematic review  | Information and Software technology, Volume 55, pp. 1165-1199, 2014                           | D Rattan;R Bhatia; and Maninder Singh                        |
| 24.    | An improved authentication protocol for session initiation protocol using smart card   | Peer-to-Peer Networking and Applications DOI 10.1007/s12083-014-0248-4, 2014                  | Tu, H., Chilamkurti N., Rho S.; and Neeraj Kumar             |
| 25.    | On the security of a certificate less online/offline signcryption for Internet of Things                                       | Peer-to-Peer Networking and Applications DOI 10.1007/s12083-014-0249-3, 2014                  | Shi W., Gong P., Chilamkurti N., Chang, H.; and Neeraj Kumar |
| 26.    | Cryptanalysis and improvement of a certificate less signcryption scheme without bilinear pairing                               | Frontiers of Computer Science, Volume 8:04, pp. 656-666, 2014                                 | Shi W., Gong P., Zhang Z.; and Neeraj Kumar                  |
| 27.    | Learning Automata Based Opportunistic Data Aggregation and Forwarding Scheme for Alert Generation in Vehicular Ad Hoc Networks | Computer Communications, Volume 39:01:00, pp. 22-32, 2014                                     | Chilamkurti N., Rodrigues J.J.P.C.; and Neeraj Kumar         |
| 28.    | A two factor authentication scheme for Roaming Service in Global Mobility Networks   | IEEE Transactions on consumer Electronics, Volume 59:04:00, pp. 811-817                       | He D.B., Khan M.K., Lee J.K.; and Neeraj Kumar               |
| 29.    | An efficient Password based Three party Authenticated Multiple Key Exchange Protocol for Wireless Networks                     | The Journal of Supercomputing, Volume 70:01:00, pp. 224-235, 2014                             | TU H, He D, Kim J.; and Neeraj Kumar                         |
| 30.    | A Peer-to-Peer Cooperative Caching Scheme for Data Dissemination in Urban Scenarios Using Vehicular Ad Hoc Networks            | IEEE Systems Journal, Volume 8:04, pp. 1136-1144, 2014  | Lee H. J.; and Neeraj Kumar                                  |

| <b>S. No.</b> | <b>Title of the paper</b>  | <b>Name of the Journal with volume, page nos., year</b>                            | <b>Name of the authors</b>  |
|---------------|--|--|---|
| 31.           | EEMHR: Energy Efficient Multi-levels Heterogeneous Routing Protocol for Wireless Sensor Networks                                     | International Journal of Communication Systems Volume 27:09:00 pp. 1289-1318, 2014 | Tanwar S; Niu J.; and Neeraj Kumar                                  |
| 32.           | Detection and Analysis of Secure Intelligent Universal Designated Verifier Signature Scheme for Electronic Voting System             | The Journal of Supercomputing Volume 70:01:00 pp. 177-199, 2014                    | Zho L; Tu Hang; Singh A; Chilamkurti N; Rho S; and Neeraj Kumar     |
| 33.           | Lightweight ECC based RFID authentication integrated with an ID verifier transfer protocol   | Journal of Medical Systems Volume 38:116, 2014                                     | He D; Chilamkurti N; Lee J.H.; and Neeraj Kumar                     |
| 34.           | LA-EEHSC: Learning Automata based Energy Efficient Heterogeneous Selective Clustering for Wireless Sensor Networks                   | Journal of Networks and Computer Applications Volume 46:11:00 pp. 264-279, 2014    | Tyagi S; Deng D.J.; and Neeraj Kumar                                |
| 35.           | ANTALG: An Innovative ACO based Routing Algorithm for MANETs   | Journal of Networks and Computer Applications Volume 45 pp. 151-167, 2014          | Singh G, Verma A.K.; and Neeraj Kumar                               |
| 36.           | Collaborative Trust aware Intrusion Detection in VANETs  | Computers and Electrical Engineering Volume 40:06:00 pp. 1981-1996, 2014           | Chilamkurti N; and Neeraj Kumar                                     |
| 37.           | Achieving QoS using Resource Allocation and Adaptive Scheduling in Cloud Computing with Support from Grid                            | The Computer Journal Volume 57:02:00 pp. 281-290, 2014                             | Chilamkurti N., Zeadally S., Jeong Y.S.; and Neeraj Kumar           |
| 38.           | OANTALG: Orientation based ant colony algorithm for MANETs   | Wireless Personal Communications Volume 77:03:00 pp. 1859-1884, 2014               | Singh G, Verma A.K.; and Neeraj Kumar                               |
| 39.           | Enhanced Three-factor Security Protocol for USB Consumer Storage Devices   | IEEE Transactions on consumer Electronics Volume 60:01:00 pp. 30-37, 2014          | He D., Khan M.K., Lee J.H; and Neeraj Kumar                         |
| 40.           | Bayesian Coalition Game for Contention-aware Reliable Data Forwarding in Vehicular Mobile Cloud                                      | Future Generation Computer Systems :10.1016/j.future.2014.10.013, 2014             | Iqbal R, Misra S., Rodrigues J.J.P.C.; and Neeraj Kumar             |
| 41.           | Networks of learning automata for the vehicular environment: a performance analysis study  | IEEE Wireless Communication Volume 21:06 pp. 41-47, 2014                           | Misra S, Obaidat M.S., Rodrigues J.J.P.C., Pati B; and Neeraj Kumar |
| 42.           | An intelligent approach for building a secure decentralized public key infrastructure in VANET                                       | Journal of Computer and System Sciences 10.1016/j.jcss.2014.12.016, 2014           | Iqbal R, Misra S., Rodrigues J.J.P.C.; and Neeraj Kumar             |
| 43.           | Collaborative-Learning-Automata-Based Channel Assignment With Topology Preservation for Wireless Mesh Networks Under QoS Constraints | IEEE Systems Journal DOI: 10.1109/JSYST.2014.2355113, 2014                         | Lee J.H.; and Neeraj Kumar  |
| 44.           | Power Consumption Based Simulation Model for Mobile Ad-hoc Network   | J. Wireless Personal communications Volume 77 pp. 1437-1448, 2014                  | Krishan Kumar; and VP Singh   |

**List of research publications in Non-SCI/Non-Impact journals**

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                                |
|--------|---|--|--|
| 1.     | Energy Efficient and High Performance Scheduling Algorithm for Grid Computing.                            | International Journal of Cloud Computing and Services Science (IJ-CLOSER) 3, no. 3 (2014): 179-188.        | Jain, Nidhi, and Inderveer Chana                   |
| 2.     | Energy based Efficient Resource Scheduling: A Step Towards Green Computing                                | International Journal of Energy, Information and Communications Vol.5, Issue 2 (2014), pp.35-52            | Sukhpal Singh and Inderveer Chana                  |
| 3.     | Big Data Analysis with Dataset Scaling in Yet Another Resource Negotiator (YARN)                          | International Journal of Computer Applications (IJCA), vol. 92, no. 5, pp. 46-50, 2014                     | Ashima Singh and Gurpreet Bedi                     |
| 4.     | Development of Component Repository,  | in International Journal of Advanced Research in Computer Science and Software Engineering, Volume 3, 2014 | AshimaSingh and Amandeep Bakshi                    |
| 5.     | Feasibility of Public Key Cryptography in Wireless Sensor   | Journal of Theoretical Physics and Cryptography, vol. 7 pp. 20-24, 2014                                    | Murari Mandal; S Bala; G Sharma; and Anil Verma    |
| 6.     | DNA Based Cryptography: A Review,   | International J. Information and Computational Technology, Volume 4, Number 7, pp. 693-698, 2014           | Ashish Kumar; and Anil Verma                       |
| 7.     | A novel algorithm for the conversion of parallel regular expressions to non-deterministic finite automata | Applied Mathematics & Information Sciences (AMIS), Volume 8 pp. 95-105, 2014                               | A Kumar; and Anil Verma                            |
| 8.     | Survey Paper on Workflow Scheduling Algorithms Used in Cloud Computing                                    | International Journal of Information and Computation Technology Volume 4 pp. 997-1001, 2014                | Anju Bala and Inderveer Chana                      |
| 9.     | Challenges of Sentiment Analysis and Existing state of art  | International Journal of Innovation and Research in Computer Science (IJIRCS), 2014. Volume 1, 2014        | Sujata Rani ; and Parteek Kumar                    |
| 10.    | Detection of potential clones from software using metrics   | International journal of advanced research in computer science Volume 4 pp. 964-969, 2014                  | Geetika Bansal; and Rajkumar Tekchandani           |
| 11.    | Comparison of KNN and Slope one Algorithm in Sparse Environment   | International Journal of Advanced Research in Computer Science and Software Engineering Volume 4, 2014     | Abhishek Kaleroun; and Shalini Batra               |
| 12.    | A review of ranking approaches for semantic search on Web   | Information Processing and Management= Volume 50 pp. 416-425, 2014   | Vikas Jindal; Seema Bawa                           |
| 13.    | Performance Comparison of Routing Protocols of MANET in Real World Scenario using NS3                     | International Journal of Computer Applications Volume 99 pp. 17-23, 2014                                   | Sushma Jain and Supriya Singla                     |
| 14.    | Buffer Over Flow : Proof Of Concept Implementation  | International Journal of scientific research and management Volume 2 pp. 1201-1204, 2014                   | Sushma Jain and Pooja Rani                         |
| 15.    | Quantum Neural Network based Machine Translator for Hindi to English                                      | The Scientific World Journal 2014 Volume 8, 2014   | Ravi Narayan; Snehashish Chakraverty; and Vp singh |
| 16.    | A Survey Paper on Web Page Change   | Engineering Sciences International   | Vishnu Goel ; and Vinay                            |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year                                   | Name of the authors           |
|--------|--|--|-------------------------------|
|        | Detection  | research journal Volume 2 pp. 241-245, 2014  | Arora                         |
| 17.    | A novel approach for automatic test sequence generation for Java fork/join from activity diagram | IEEE Advanced Communication Control and Computing Technologies pp. 1611-1615, 2014 | Vipin Verma; and Vinay Arora  |
| 18.    | Test sequence generation for Java7 fork/join using interference dependence                       | Journal on Today Ideas Tomorrow Technologies Volume 2, 2014                        | Vipin Verma ; and Vinay Arora |

2015

**List of research publications in SCI/Impact Factor journals**

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                           |
|--------|---|---|---|
| 1.     | Autonomic Fault tolerant Scheduling for Scientific Workflows in Cloud Computing"          | Concurrent Engineering: Research and Applications, Sage Publishers Volume 22, Issue 4, Pages 1-13, 2015. [Impact Factor: 0.531] | Anju Bala, Inderveer Chana                    |
| 2.     | A hyper-heuristic approach for resource provisioning-based scheduling in grid environment | The Journal of Supercomputing, Springer, 20 January, 2015. [Impact Factor: 0.841]   | Rajni Aron, Inderveer Chana and Ajith Abraham |
| 3.     | QRSF: QoS-aware resource scheduling framework in cloud computing                          | The Journal of Supercomputing, Vol. 71, no. 1, pp: 241-292, 2015. [Impact Factor: 0.841]  | Singh, Sukhpal, and Inderveer Chana           |
| 4.     | Intelligent failure prediction models for scientific workflows                            | Expert Systems with Applications, Vol. 42, no. 3 (2015): pp: 980-989. [Impact Factor: 1.92]                                     | Bala, Anju, and Inderveer Chana.              |
| 5.     | Intelligent text classification system based on self-administered ontology                | Turkish Journal Of Electrical Engineering, 2015   | Manoj Manuja and Deepak Garg;                 |
| 6.     | A Survey on Zero-Day Polymorphic Worm Detection Techniques                                | IEEE Computing Surveys and Tutorials, 16, 1520-1549, 2015   | Ratinder Kaur and Maninder singh              |
| 7.     | Managing Data in Healthcare Information Systems: Many Models, One Solution",              | Computer, vol.48, no. 3, pp. 52-59, Mar. 2015, doi:10.1109/MC.2015.77, SCI-INDEXED, Impact Factor : 1.478.                      | Karamjit Kaur, Rinkle Rani                    |

**List of research publications in Non-SCI/Impact Factor journals**

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                         |
|--------|---|---|---|
| 1.     | Analysis of Search Engine Optimization (SEO) Techniques   | International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), pp. 563-566, 2015 | Gurpreet Singh Bedi and Ms. Ashima Singh    |
| 2.     | A Non-Interactive Certificateless Two-Party Authenticated Key Agreement Protocol for Wireless Sensor Networks | International Journal of Ad Hoc and Ubiquitous Computing, 2015 [Accepted In press]                                    | Suman Bala and Anil Verma                   |
| 3.     | A Constraint Guided Progressive Sequential Mining Waterfall Model for CRM                                     | CIT Journal of Computing and Information Technology, 22, 45-55, 2015.   | Bhawna Mallick; P S Grover; and Deepak Garg |
| 4.     | Word Sense Disambiguation for Punjabi Language Using  | Advances in Intelligent Informatics, pp. 607-619. Springer International  | Rana, Preeti and Parteek Kumar              |



| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                     |
|--------|---|---|---|
|        | Overlap Based Approach  | Publishing, 2015.   |   |
| 5.     | P-Skip Graph: An Efficient Data Structure for Peer-to-Peer Network                            | Intelligent Distributed Computing, 321, 43-54, 2015.  | Amrindeerpreet Singh and shalini batra  |
| 6.     | Hybrid Genetic Fuzzy Rule Based Inference Engine to Detect Intrusion in Networks              | Intelligent Distributed Computing (Book title Advances in Intelligent Systems and Computing), 321, 185-198, 2015.   | Kriti Chadha, Sushma Jain               |
| 7.     | A Query-Context oriented Approach to Semantic Search on Web                                   | International Journal of Artificial Intelligence and Knowledge Discovery, Vol.5, Issue 1, Jan 2015  | Vikas Jindal, Seema Bawa, Shalini Batra |
| 8.     | Quality of Service and Service Level Agreements for Cloud Environments: Issues and Challenges | Book Chapter titled, "Quality of Service and Service Level Agreements for Cloud Environments: Issues and Challenges" in the book: Challenges, Limitations and R&D Solutions, 2014, Springer, pp. 51-72. | Inderveer Chana and Sukhpal Singh       |
| 9.     | Data Mining - Techniques, Methods and Algorithms: A Review on Tools and their Validity        | International Journal of Computer Applications (0975 - 8887) , Volume 113 - No. 18, March 2015, pp. 22-29 (impact factor 0.715)   | Mansi Gera, Shivani Goel                |
| 10.    | Comparative analysis of ECC and RSA for Document-oriented database MongoDB                    | International Journal of Computer Technology and Applications, vol. 5, issue 4, pp. 1555-1560, Impact Factor: 2.804.  | Saurabh Singh, Karamjit Kaur            |
| 11.    | Comparative Analysis of MySql and a Case-Study of Hospital Management System MongoDB",        | International journal of computer technology and applications, vol. 5, issue 4, pp. 1555-1560, Impact Factor: 2.804.  | Dhulfiqar Hazim, Karamjit Kaur          |

ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

| S. No. | Author(s)  | Year | Title of Paper  | Name of the Journal, volume/ page numbers,  |
|--------|--|------|---|---|
| 1.     | Singh, S., Singh, S., Kaur, R., Kaler, R.S.                            | 2015 | Performance investigation of optical multicast overlay system using orthogonal modulation format                                      | Optics Communications, 338, pp 58-63  |
| 2.     | T.Sharma and M. Kumar  | 2015 | Hybridization of Plasmonic and Photonic Modes for Subwavelength Optical Confinement with Longer Propagation and Variable Nonlinearity | Optics Communications, <b>343</b> (2015) 85-90.   |
| 3.     | S. Aneja and M. Kumar  | 2015 | Design of a Three-Hole Defect Photonic Crystal Nanocavity with High-Q and Enhanced Purcell Factor                                     | <i>Opt. Eng.</i> , <b>54</b> (1), 017106 (2015). Doi  |
| 4.     | M. Kumar   | 2015 | Hollow Waveguide Bragg Reflector: A Tunable Platform for Integrated Photonics   | <i>Journal of Optics and Laser Technology</i> 65, 5 - 13  |
| 5.     | A. Sharma and M. Kumar   | 2014 | Flat Band Slow Light in Silicon Photonic Crystal Waveguide with Large Delay Bandwidth Product and Low Group Velocity Dispersion       | <i>IEEE-IET Optoelectronics</i> , DOI <a href="https://doi.org/10.1049/iet-opt.2014.0090">10.1049/iet-opt.2014.0090</a> |
| 6.     | S. Jindal and M. Kumar   | 2014 | Broadband and Polarization Insensitive Design of Terahertz Absorber with High-Index Contrast Grating on SOI Chip                      | <i>Optical and Quantum Electronics</i> , DOI 10.1007/s11082-014-0026-9  |
| 7.     | T. Sharma and M. Kumar   | 2014 | Hollow hybrid plasmonic waveguide for nanoscale optical confinement with long-range propagation                                       | Applied Optics 53, 1954-1957  |
| 8.     | Jimenez-Moreno, A., Martinez-Enriquez, E., Kumar, V., Diaz-De-Maria, F | 2014 | Standard-compliant low-pass temporal filter to reduce the perceived flicker artefact  | IEEE Transactions on Multimedia, 16, pp. 1863-1873  |
| 9.     | Sobti, L., Arora, V., Singh, H.  | 2014 | Linear power division approximation for stimulated raman scattering   | Fiber and Integrated Optics, 33, pp. 299-305  |
| 10.    | Kaur, J.   | 2014 | Development of dual-band microstrip patch antenna for WLAN/MIMO/WIMAX/ AMSAT/WAVE applications  | Microwave and Optical Technology Letters, 56, pp. 998-993   |
| 11.    | Nidhi, Kaler, R.S., Kapur, P.  | 2014 | Enhancement of sensitivity of the refractive index using ITO coating on LPG   | Optoelectronics and Advanced Materials, Rapid Communications, 8, pp. 45-48  |
| 12.    | Kaur, S., Kaler, R.S.  | 2014 | 5 GHz all-optical binary counter employing SOA-MZIs and an optical NOT gate   | Journal of Optics (United Kingdom) 16   |
| 13.    | Parkash, D., Khanna, R.  | 2014 | Design of dumbbell shape multiband antenna for heterogeneous wireless communication systems   | International Journal of Applied Engineering Research, 9, pp. 347-354   |
| 14.    | Singh, S., Kaler, R.S.   | 2014 | Novel optical flat-gain hybrid amplifier for dense wavelength division multiplexed system   | IEEE Photonics Technology Letters, 26, pp. 173-176  |

| S. No. | Author(s)                                   | Year | Title of Paper   | Name of the Journal, volume/ page numbers,  |
|--------|---|------|--|---|
| 15.    | Nidhi, Kaler, R.S., Kapur, P.               | 2014 | Humidity sensing using gelatin and cobalt chloride coating on indium tin oxide-coated long-period grating  | Fiber and Integrated Optics, 33, pp. 120-125  |
| 16.    | Nidhi, Kaler, R.S., Kapur, P.               | 2014 | Theoretical and experimental study of long-period grating refractive index sensor  | Fiber and Integrated Optics, 36, pp. 37-46  |
| 17.    | Singh, S., Kaler, R.S.                      | 2014 | Performance optimization of EDFA-Raman hybrid optical amplifier using genetic algorithm  | Optics and Laser Technology, 68, pp. 89-95  |
| 18.    | Singh, H., Kaur, L., Singh, K.              | 2014 | Fractional M-band dual tree complex wavelet transform for digital watermarking   | Sadhana - Academy Proceedings in Engineering, 39, pp. 345-361 Sciences  |
| 19.    | Monga, H., Kaler, R.S.                      | 2014 | Performance evaluation of optical code division multiple access systems  | Journal of Communications Technology and Electronics, 59, pp. 1190-1199   |
| 20.    | Singh, S., Saini, S., Kaler, R.S., Kaur, R. | 2014 | Multi parameter optimization of Raman Fiber Amplifier using genetic algorithm for S band dense wave-length division multiplexed system                     | Optik, 125, pp. 4694-4699   |
| 21.    | Jain, D., Sharma, S.                        | 2014 | Adaptively grouped multilevel space-time trellis codes   | Wireless Personal Communications, 74, pp. 415-426   |
| 22.    | Ahuja, K., Singh, B., Khanna, R.            | 2014 | Network selection algorithm based on link quality parameters for heterogeneous wireless networks   | Optik, 125, pp. 3657-3662   |
| 23.    | Singh, S., Saini, S., Kaur, G., Kaler, R.S. | 2014 | On the optimization of raman fiber amplifier using genetic algorithm in the scenario of a 64 nm 320 channels dense wavelength division multi-plexed system | Journal of the Optical Society of Korea, 18, pp.118-123   |
| 24.    | Jindal, N., Singh, K.                       | 2014 | Joint image compression-encryption using discrete fractional transforms  | Imaging Science Journal, 62, pp. 265-272  |
| 25.    | Atul Thakur and Alpana Agarwal              | 2014 | Low-Power Architectures and Self Calibration Techniques of DAC for SAR - ADC Implementation  | Int. Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 2, Issue 3, 2014. |
| 26.    | Parkash, D., Khanna, R.                     | 2014 | Triple band rectangular-shaped monopole antenna for WLAN/ WiMAX /UWB applications  | Microwave and Optical Technology Letters, 56, pp. 2113-17   |
| 27.    | Saluja, N., Khanna, R.                      | 2014 | Design, analysis, and fabrication of a novel multiband folded edge compact size fractal PIFA for WiFi/LTE/WiMAX/ WLAN application                          | Microwave and Optical Technology Letters, 56, pp. 2836-2841   |
| 28.    | Goyal, R., Kaler, R.S.                      | 2014 | Investigation on polarization dependent bidirectional hybrid (WDM/TDM) utilizing QAM modulation with different amplifiers                                  | Optoelectronics and Advanced Materials, Rapid Communications, 8, pp. 631-634  |
| 29.    | Rai, M.K., Khanna, R., Sarkar, S.           | 2014 | Control of tube parameters on SWCNT bundle interconnect delay and power dissipation  | Microelectronics International, 31, pp. 22-31   |

| S. No. | Author(s)   | Year | Title of Paper  | Name of the Journal, volume/ page numbers,   |
|--------|---|------|---|--|
| 30.    | Monga, H., Kaler, R.S.                                  | 2014 | Performance comparison of proposed 3-d coherent spatial-phase-time coding/decoding with super structured fiber Bragg grating-based optical CDMA systems | Journal of Communications Technology and Electronics, 59, pp. 1169-1179                |
| 31.    | Ahuja, K., Singh, B., Khanna, R.                        | 2014 | Network selection based on weight estimation of QoS parameters in heterogeneous wireless multimedia networks  | Wireless Personal Communications, 77, pp. 3027-3040                                    |
| 32.    | Singh, S., Kaler, R.S.                                  | 2014 | Multistage gain-flattened hybrid optical amplifier at reduced wavelength spacing  | Optik, 125, pp. 5357-5359  |
| 33.    | Khosla, P.K., Khanna, R., Sood, S.P.                    | 2014 | Analysis of magneto-inductive system for rocket sled velocity measurement beyond mach 1.5   | Defence Science Journal, 64, pp. 143-151   |
| 34.    | Singh, S., Kaler, R.S.                                  | 2014 | Performance investigation of Raman erbium-doped fiber amplifier hybrid optical amplifier in the scenario of high-speed orthogonal-modulated signals     | Optical Engineering, 53  |
| 35.    | Singh, S., Raman, Kaler, R.S.                           | 2014 | Investigation of wavelength division multiplexed hybrid ring-tree-star network topology to enhance the system capacity                                  | Optik, 125, pp. 6516-6519  |
| 36.    | Ahuja, K., Singh, B., Khanna, R.                        | 2014 | Particle swarm optimization based network selection in heterogeneous wireless environment   | Optik, 125, pp. 214-219  |
| 37.    | Singh, S., Kaler, R.S.                                  | 2014 | Power transient and its control in raman-erbium doped fiber amplifier hybrid optical amplifier subject to multi-channel bursty traffic                  | Journal of Optical Technology (A Translation of Opticheskii Zhurnal) , 81, pp. 590-593 |
| 38.    | Goyal, R., Kaler, R.S., Kamal, T.S.                     | 2014 | Performance investigation of bidirectional hybrid (wavelength-division multiplexing/ time-division multiplexing) passive optical network                | Optoelectronics and Advanced Materials, Rapid Communications, 8, pp. 663-667           |
| 39.    | Kaur, J., Khanna, R., Kartikeyan, M.V.                  | 2014 | Optimization and development of O-shaped triple-band microstrip patch antenna for wireless communication applications                                   | IETE Journal of Research, 60, pp. 95-105   |
| 40.    | Kaur, K.P., Randhawa, R., Kaler, R.S.                   | 2014 | Performance analysis of WDM-PON architecture using different receiver filters   | Optik, 125, pp. 4742-4744  |
| 41.    | Kaur, K.P., Randhawa, R., Kaler, R.S.                   | 2014 | Low cost architecture to integrate multiple PONs to a long reach spectrum sliced WDM network  | Optik, 125, pp. 4513-4516  |
| 42.    | Kasana, G., Singh, K., Bhatia, S.S.                     | 2014 | Steganography technique for JPEG2000 compressed images using histogram in wavelet domain  | International Journal of Security and its Applications, 8, pp. 211-224                 |
| 43.    | Singh, S., Kapoor, A., Kaur, G., Kaler, R.S., Goyal, R. | 2014 | Investigation on wavelength re-modulated bi-directional passive optical network for different modulation formats  | Optik, 125, pp. 5378-5382  |

| S. No. | Author(s)                                   | Year | Title of Paper  | Name of the Journal, volume/ page numbers,   |
|--------|---|------|---|--|
| 44.    | Goel, N., Singh, K.                         | 2014 | Modified correlation theorem for the linear canonical transform with representation transformation in quantum mechanics                           | Signal, Image and Video Processing, 8, pp. 595-601   |
| 45.    | Singh, S., Kaler, R.S.                      | 2014 | Flat-gain characteristics of C+L slit-band hybrid waveguide amplifier for dense wavelength division multiplexed system at reduced channel spacing | Optoelectronics and Advanced Materials, Rapid Communications, 8, pp. 980-984                               |
| 46.    | Singla, G., Khanna, R.                      | 2014 | Modified CPW-fed rotated E-slot antenna for LTE/WiMAX applications  | International Journal of Microwave and Wireless Technologies, 7  |
| 47.    | Kaur, S., Kaler, R.S.                       | 2014 | All optical SR and D flip-flop employing XGM effect in semiconductor optical amplifiers   | Optik, 125, pp. 865-869  |
| 48.    | Singh, S., Saini, S., Kaur, G., Kaler, R.S. | 2014 | Multiparameter optimization of a Raman fiber amplifier using a genetic algorithm for an L-band dense wavelength division multiplexed system       | Optical Engineering, 5   |
| 49.    | Monga, H., Kaler, R.S.                      | 2014 | Analytical Design, Simulation & Evaluation of Proposed OCDMA with Message Priority Fast Routing Codes   | National Academy Science Letters, 37, pp. 509-512  |
| 50.    | Chawla, P., Khanna, R.                      | 2014 | Design and fabrication of a novel hexagonal reconfigurable antenna with RF switches for mobile terminal   | Journal of the National Science Foundation of Sri Lanka, 42, pp. 257-263                                   |
| 51.    | Naveen Dewan and Harpreet Vohra             | 2014 | Test Scheduling of core based SOC using greedy algorithm  | International Journal of Engg. Research and Applications, Vol. 4, Issue 9(Version 3), Sept. 2014, pp.80-85 |
| 52.    | Singh, S., Kaler, R.S.                      | 2014 | Placements of Hybrid/conventional optical amplifiers in a multi-wavelength dense metropolitan area network  | Optoelectronics and Advanced Materials, Rapid Communications, 8, pp. 762-769                               |
| 53.    | Singh, S., Kohli, A.K.                      | 2014 | Wireless fading paradigm for antenna array receiver for a disk-type cluster of scatterers   | Circuits, Systems, and Signal Processing, 33, pp. 1231-1244  |
| 54.    | Garg, M., Kaler, R.S.                       | 2014 | Implementation and performance analysis of three dimensional (3D)space/ wavelength/ time single pulse per plane codes with direct detection       | Optik, 124, pp. 6069-6073  |
| 55.    | Rai, M.K., Sarkar, S.                       | 2014 | Influence of distance between adjacent tubes on SWCNT bundle interconnect delay and power dissipation   | Journal of Computational Electronics, 12, pp. 796-802  |
| 56.    | R. Ratan, S. Sharma, and Amit Kumar Kohli   | 2014 | Cubic Lagrange Polynomial Based Designing of Efficient Interpolators  | International Journal of Electronics Letters, vol. 2, no. 1, pp. 8 - 16                                    |

| S. No. | Author(s)                              | Year | Title of Paper  | Name of the Journal, volume/ page numbers,   |
|--------|--|------|---|--|
| 57.    | Yoshita Gupta ,<br>Amanpreet Kaur      | 2014 | A Novel Microstrip Patch Antenna at 5.8 GHz for WLAN and WIMAX Applications                           | International Journal Of Advanced Research In Computer And Communication Engineering, Vol3, Issue 6,6605-6607        |
| 58.    | Gunjan Makkar ,<br>Amanpreet Kaur      | 2014 | Dual Band Aperture Coupled Patch Antenna For WLAN and WiMax   | International Journal of Advanced Research in Computer and Communication Engineering, Vol.3, Issue 5                 |
| 59.    | Mukul Bhardwaj,<br>Amanpreet Kaur      | 2014 | A Tri-Band Microstrip Patch Antenna for Wireless Applications at 5.5, 6.3 And 6.8 GHz                 | Int. Journal of Advanced Research in Electrical, Electronics and Instrumentation Engg, Vol.3, No.7                   |
| 60.    | Dharamvir Jain,<br>Sanjay Sharma       | 2014 | A Novel Grouped Multilevel Space Time Trellis Coding Scheme   | International Journal of Communication Systems   |
| 61.    | Raj Johri, Shyam Akashe, Sanjay Sharma | 2014 | High Performance 8 Bit Cascaded Carry Look Ahead Adder with Precise Power Consumption                 | International Journal of Communication Systems   |
| 62.    | Gunjan,<br>Amanpreet Kaur              | 2014 | A Dual Aperture Coupled Stacked Microstrip Patch Antenna for WLAN                                     | Int. Journal of Advanced Research in Electrical, Electronics and Instrumentation Engg., Vol. 3, Issue 7              |
| 63.    | Gursimranjit Singh, Amanpreet Kaur     | 2014 | Design of Plus Shape Fractal Antenna for Various Applications   | International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169 Vol. 2 Issue 7 |
| 64.    | Dharamvir Jain,<br>Sanjay Sharma       | 2014 | Weighted Adaptively Grouped Multilevel Space Time Trellis Codes                                       | International Journal of Electronics   |
| 65.    | Govind Singh patel, Sanjay Sharma      | 2014 | Parametric Analysis of Novel Architecture of PLL for Communication Systems                            | Wireless Personal Communications   |
| 66.    | Dharamvir Jain,<br>Sanjay Sharma       | 2014 | Adaptive Generator Sequence Selection in Multilevel Space Time Trellis Codes                          | Wireless Personal Communications   |
| 67.    | Govind Singh Patel, Sanjay Sharma      | 2014 | Parametric Analysis to reduce Phase Noise of Frequency Synthesizers for Wireless Communication System | Wireless Personal Communications   |
| 68.    | Dharamvir, Sanjay Sharma               | 2014 | Adaptively Grouped Multilevel Space-Time Trellis Codes  | Wireless Personal Communications   |
| 69.    | Goving Patel, Sanjay Sharma            | 2014 | Predicting the jitter of PLL-DLL Based Frequency Synthesizers   | International Journal of Wavelets, ultiresolution and Information Processing   |
| 70.    | Pawan Singh, Sanjay Sharma             | 2014 | Substrate Coupling of RF CMOS on Lightly Doped Substrate for Nanoscale Mixed-Signal Design            | Journal of Computational and Theoretical nanoscience   |

| S. No. | Author(s)                                     | Year | Title of Paper  | Name of the Journal, volume/ page numbers,   |
|--------|---|------|---|--|
| 71.    | Bhasker Gupta and Davinder Singh Saini        | 2014 | Moment generating function-based pairwise error probability analysis of concatenated low density parity check codes with Alamouti coded multiple input multiple output-orthogonal frequency division multiplexing systems | IET Communications, Vol. 8, No. 3, pp. 399-412   |
| 72.    | Bhasker Gupta and Davinder Singh Saini        | 2013 | A Rate $M_t$ Full Diversity STF Block Coded 4x4 MIMO-OFDM System with Reduced Complexity  | Wireless Personal Communication, Vol. 72, No. 2, pp. 1489-1512                               |
| 73.    | Bhasker Gupta and Davinder Singh Saini        | 2013 | Space-Time/Space-Frequency/Space-Time-Frequency Block Coded MIMO-OFDM System with Equalizers in Quasi Static Mobile Radio Channels using Higher Tap Order   | Wireless Personal Communication, Vol. 69, No. 4, pp. 1947-1968                               |
| 74.    | Bhasker Gupta and Davinder Singh Saini        | 2013 | Performance of Concatenated Optimized Irregular LDPC Code with Alamouti Coded MIMO-OFDM Systems   | WSEAS Transactions on Communications, Vol. 12, No. 5, PP. 208-213,                           |
| 75.    | Rajeev Ratan, Sanjay Sharma, Amit Kumar Kohli | 2013 | Designing of Farrow Structure Based Interpolators on Nanometer based FPGA Technology  | Acta Physica Polonica A  |
| 76.    | Shyam Akashe, Sanjay Sharma                   | 2013 | Design Trade-Offs for Nanoscale Process and Material Parameters on 7T SRAM Cell   | Journal of Computational and Theoretical Nanoscience   |
| 77.    | Shyam Akashe, Sanjay Sharma                   | 2013 | Design of SRAM Cell Based Memory Array in Nano-Scaled Technolog   | Journal of Computational and Theoretical Nanoscience   |
| 78.    | Govind Singh Patel, Sanjay Sharma             | 2013 | FPGA - Nanotechnology Based DDS Analysis and Implementation   | Journal of Computational and Theoretical Nanoscience   |
| 79.    | R. Ratan, S. Sharma, and Amit Kumar Kohli     | 2013 | Performance Comparison of Quadrature Amplitude Modulation (QAM) Based Single and Double Stage Digital Interpolators   | International Journal of Electronics, vol. 100, no.12, pp. 1724 - 1734                       |
| 80.    | D. S. Kapoor and Amit Kumar Kohli             | 2013 | Gain Adapted Optimum Mixture Estimation Scheme for Single Channel Speech Separation   | Circuits, Systems and Signal Processing, vol. 32, no. 5, pp. 2335 - 2351                     |
| 81.    | R. Ratan, S. Sharma, and Amit Kumar Kohli     | 2013 | Designing of Farrow Structure Based Interpolators on Nanometer based FPGA Technology  | Journal of Computational and Theoretical Nanosciences (CTN), vol. 10, no. 9, pp. 2248 - 2259 |
| 82.    | B. Kaushik, N. Kaur, and Amit Kumar Kohli     | 2013 | Achieving Maximum Reliability in Fault Tolerant Network Design for Variable Networks  | Applied Soft Computing, vol. 13, no. 7, pp. 3211 - 3224                                      |
| 83.    | Amit Kumar Kohli and A. Rai                   | 2013 | Numeric Variable Forgetting Factor RLS Algorithm for Second-Order Volterra Filtering  | Circuits, Systems and Signal Processing, vol. 32, no. 1, pp. 223 -232                        |
| 84.    | R. Ratan, S. Sharma, and Amit Kumar Kohli     | 2013 | Performance Comparison of QPSK Based Single and Double Stage Digital Interpolators  | Acta Physica Polonica A, vol. 123, no. 2, pp. 196 -198                                       |

| S. No. | Author(s)   | Year | Title of Paper  | Name of the Journal, volume/ page numbers,  |
|--------|---|------|---|---|
| 85.    | R. Ratan, S. Sharma, and Amit Kumar Kohli                     | 2013 | Efficient Implementation of Multistage Digital Interpolators Using Half Band Filters  | Acta Physica Polonica A, vol. 123, no. 2, pp. 199 – 201   |
| 86.    | Sanjay Sharma, Shyam Akashe                                   | 2013 | High Variability Resilient in Nano-Scaled Technologies for low power 7T-SRAM Design   | Applied Mathematics and Information Science   |
| 87.    | Shyam Akashe, Sanjay Sharma                                   | 2013 | Read Write Stability of Dual-Vt 7T SRAM Cell at 45 nm Technology  | Journal of Computational and Theoretical Nanoscience, Vol. 10, No. 1, pp.69-72, Jan. 2013.  |
| 88.    | Pawan Kumar Singh, Sanjay Sharma                              | 2013 | Analytical Parametric Modeling of Nanoscale Surrounding Gate MOSFET Based on the Poisson's Equation                                   | Journal of Computational and Theoretical Nanoscience, Vol. 10, No. 3, pp. 557-560, March 2013.  |
| 89.    | Mr. Kapil Kashyap, Hardeep Singh, Preeti Singh & Manish Gupta | 2013 | RZ-Soliton Modulation Format Based Wavelength Division Multiplexed System Transmission Performance at Different Transmission Distance | International Journal of Engineering, Business and Enterprise Applications(IJEBEA), ISSN No. 2279-0020, Vol.4, No. 1,pp. 91-96                        |
| 90.    | Mr. Kapil Kashyap, Hardeep Singh, Preeti Singh & Chetan Gupta | 2013 | Effect of Self Phase Modulation on Optical Fiber  | American International Journal of Research in Science, Technology, Engineering & Mathematics (AIJRSTEM) , ISSN No. 2328-3491, Vol.2, No.2, pp.160-164 |
| 91.    | Mr. Kapil Kashyap, Hardeep Singh, Preeti Singh & Chetan Gupta | 2013 | Effect of Cross Phase Modulation(XPM) on Optical Fiber Using Two Wavelength Division Multiplexed (WDM) Channels                       | International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), Vol.4, No. 5, pp. 536-540                             |
| 92.    | Mr. Kapil Kashyap, Hardeep Singh, Preeti Singh & Sanjiv Kumar | 2013 | Compensation of Dispersion in Optical Fiber using Fiber Bragg Grating (FBG)   | International Journal of Advanced Research in Science and Engg. (IJARSE),Vol. 2, Issue 4, pp. 124-132   |
| 93.    | Mr. Deepak Goyal & Hardeep Singh                              | 2013 | Performance Evaluation of Optical Amplifier for 96*10 Gbps Optical Communication System   | International Journal of Engg. Trends and Technology(IJETT), Vol.4, Issue 6, pp. 2230-2235  |
| 94.    | Ms. Priyanka Dalotra &Hardeep Singh                           | 2013 | Effect of Chromatic Dispersion on FWM in Optical WDM Transmission System  | Int. Journal of Advanced Research in Computer and Communication Engg. (IJARCCE), Vol.2, Issue 6, pp. 2379-2383  |
| 95.    | Mr Abhishek Pal & Hardeep Singh                               | 2013 | Performance Analysis of WDM Systems with FBG and DCF as Dispersion Compensators   | Int. Journal of Information Technology and Knowledge Management (IJITKM), Vol.6, No. 2, pp. 109-112   |



| S. No. | Author(s)   | Year | Title of Paper  | Name of the Journal, volume/ page numbers,   |
|--------|---|------|---|--|
| 96.    | Ankush Kansal<br>Anurag Sharma                    | 2013 | Performance Analysis of 8x8 MIMO OFDM System for Various Modulation Techniques Using Different Fading Channels and PAPR Reduction Using SLM Technique | International Journal of Scientific & Engineering Research, Vol. 4, Issue 7, pp. 2033-2047, July 2013              |
| 97.    | Ankush Kansal<br>Vivek Mankotia                   | 2013 | Capacity Analysis of MIMO (8x8) System with or without CSI under Different Wireless Fading Channels   | Int. Journal of Electronics Comm. and Electrical Engg., Vol. 3 Issue 5, pp 32-54, 2013                             |
| 98.    | Ankush Kansal<br>Anuj Attri                       | 2013 | Improved performance of Sierpinski Carpet Based Fractal Antenna using Stacked Configuration   | International Journal of Scientific & Engineering Research, volume 4, issue 8 pp. 220-224, 2013                    |
| 99.    | Ankush Kansal<br>Vivek Mankotia                   | 2013 | Rician Channel Capacity Comparison Between (8X8) and (4x4 ) MIMO systems  | International Journal of Engineering Trends and Technology, Vol. 4, Issue 6, pp. 2589-2593, June 2013.             |
| 100.   | Ankush Kansal<br>Anurag Sharma                    | 2013 | PAPR Analysis of 8X8 MIMO OFDM and OFDM system  | International Journal of Advance Research in Computer and Communication Engineering, Vol. 2, Issue 8, 2013.        |
| 101.   | Navdeep Goel and<br>Kulbir Singh                  | 2013 | Analysis of Dirichlet, Generalized Hamming and triangular window functions in the linear canonical transform domain                                   | Springer - Signal, Image and Video Processing (SIViP), vol. 7, no. 5, pp. 911-923, DOI: 10.1007/s11760-011-0280-2, |
| 102.   | Navdeep Goel and<br>Kulbir Singh                  | 2013 | Modified convolution and product theorem for the linear canonical transform derived by representation transformation in quantum mechanics             | Applied Mathematics and Computer Science (AMCS), vol. 23, no. 3, pp. 685-695, DOI: 10.2478/amcs-2013-0051,.        |
| 103.   | Sanjay Kumar,<br>Kulbir Singh and<br>Rajiv Saxena | 2013 | Closed-form analytical expression of fractional order differentiation in fractional Fourier transform domain  | Springer – Circuits, Systems, and Signal Processing, vol. 32, no. 4, pp. 1875-1889,                                |
| 104.   | Kulbir Singh,<br>Rajiv Saxena and<br>Sanjay Kumar | 2013 | Caputo-based fractional derivative in fractional Fourier transform domain   | IEEE Journal on Emerging and Selected Topics in Circuits and Systems (IEEE-JETCAS)                                 |
| 105.   | Jindal N. and<br>Singh K                          | 2013 | Image Retrieval Algorithm based on Discrete Fractional Transforms   | Journal of Electrical Engineering, vol. 64, No. 4, pp. 250-255   |
| 106.   | Jindal N. and<br>Singh K.                         | 2013 | Video Compression-Encryption using Three Dimensional Discrete Fractional Transforms   | Research Journal of Applied Sciences, Engineering and Technology, vol. 5, No. 14, pp. 3678-3683.                   |
| 107.   | H. Garg and Amit<br>Kr. Kohli                     | 2013 | Nonstationary-Epileptic-Spike Detection Algorithm in EEG Signal using SNEOs   | Biomedical Engg. Letters, vol. 3, no. 2, pp. 80 - 86   |

| S. No. | Author(s)   | Year | Title of Paper   | Name of the Journal, volume/ page numbers,   |
|--------|---|------|--|--|
| 108.   | Savita, D. S. Kapoor, and Amit Kumar Kohli          | 2013 | Comparative evaluation of generalized ADALINE using variable learning rate parameter   | IJCEM, Inter. Journal of Computational Engineering & Management, vol. 16, no. 4, pp. 44 – 48                         |
| 109.   | A. K. Sharma, B. Kaushik, N. Kaur, and Amit K Kohli | 2013 | Simulation of Route Optimization with Load Balancing using AntNet System   | IOSR Journal of Computer Engineering, vol. 11, no. 4, pp. 01 – 07  |
| 110.   | R. Ratan, S. Sharma, and Amit Kumar Kohli           | 2013 | Effect of Compensation and Arbitrary Sampling in interpolators for Different Wireless Standards on FPGA Platform                       | Research Journal of Sciences, Engineering and Technology, vol. 6, no. 4, pp. 609 – 621                               |
| 111.   | B. Kaushik, N. Kaur, and Amit Kumar Kohli           | 2013 | Improved Approach for Maximizing Reliability in Fault Tolerant Networks  | International Journal of Advanced Computational Intelligence and Intelligent Informatics, vol. 17, no. 1, pp. 27 –28 |
| 112.   | Jaswinder Kaur & Rajesh Khanna                      | 2013 | Co-axial Fed Rectangular Microstrip Patch Antenna for 5.2 GHz WLAN Application   | Universal Journal of Electrical and Electronic Engineering, vol.1, iss. 3, pp. 94-98                                 |
| 113.   | Jaswinder Kaur, Rajesh Khanna, M. Kartikeyan        | 2013 | Design of co-axial fed broadband single layer rectangular microstrip patch antenna for wireless applications                           | Journal of Engineering and Technology, vol. 3, iss. 2, pp.71-75  |
| 114.   | Ajay Kakkar and Pankaj Udvanshi                     | 2013 | Scheduling of Real Time Tasks  | IOSR Journal of Engineering, Vol.3, pp. 44-58  |
| 115.   | Richa Kashyap, Rajesh Khanna & Jaswinder Kaur       | 2013 | Novel Dual- Band CPW-fed Monopole Antenna for WLAN/WiMAX Applications  | Int. Journal of Emerging Trends in Electrical and Electronics, vol. 3, issue 2, pp. 73-77                            |
| 116.   | Jaswinder Kaur and Rajesh Khanna                    | 2013 | Design of Coaxial Fed Microstrip Patch Antenna for Wi-MAX/ IMT Applications  | Research Journal of Engineering and Technology, vol. 4, iss. 1, pp.40-44   |
| 117.   | Ajay Kakkar   | 2013 | Performance analysis of multiple key having variable length in multinode network   | International Journal of Science, Technology and Management, Vol.3, pp. 44-53  |
| 118.   | Mayank Kumar Rai, Rajesh Khanna and Sankar Sarkar   | 2013 | Crosstalk analysis in CNT bundle interconnects for VLSI application  | IEEJ Transaction on Electrical and Electronic Engineering, (Journal of Wiley)  |
| 119.   | Yogeshwar Singh Randhawa, Sanjay Sharma             | 2013 | Effect of Multi Threshold Techniques on Comparative Study of 11T and 6T Cell During Leakage Power Robustness                           | Quantum Matter, Vol.2 No.2 pp 67-70, 2013  |
| 120.   | Shyam Akashe and Sanjay Sharma                      | 2013 | Low Power High Static Noise Margin with Material Parameter of SRAM Cell Design Considering Nano-Scaled Technology and Transistor Ratio | Quantum Matter, Vol.2 No.1 pp 67-70, 2013  |
| 121.   | R. Saxena and H. D. Joshi                           | 2013 | ICI Reduction in OFDM system using IMBH combinational pulse shape  | Wireless Personal Communications, Vol. 71, no. 4, pp. 2895–2911  |

| S. No. | Author(s)   | Year | Title of Paper  | Name of the Journal, volume/ page numbers,   |
|--------|---|------|---|--|
| 122.   | Saraswati Kumari, Shivesh Kr. Rai, Atul Kumar, Hem Dutt Joshi, Ashutosh kr. Singh, Rajiv Saxena | 2013 | Exact BER Analysis of FRFT-OFDM System over Frequency Selective Rayleigh Fading Channel with CFO                      | Electronics Letters, IET Publication, Vol. 49,   |
| 123.   | R. Saxena and H.D. Joshi  | 2013 | OFDM and its Major Concerns: A Study with Way Out   | IETE Journal of Education, Vol. 54, Issue 1, pp. 26-49   |
| 124.   | R. Saxena and H. D. Joshi   | 2013 | Performance Improvement in OFDM system with MBH Combinational pulse shapes  | Digital Signal Processing vol. 23, Jan 2013, pp. 314-321   |
| 125.   | Vaibhav Mishra, Pragati Rana, Priya Keerti Tripathi, Hem Dutt Joshi                             | 2013 | Performance Analysis of Comb Type Pilot Aided Channel Estimation in OFDM with Different Pilot Sequences               | IEEE International Conference on Wireless and Optical Communications Networks (WOCN-2013), 26-28 July, 2013,                         |
| 126.   | Saraswati Kumari, Shivesh Kr. Rai, Atul Kumar, H. D. Joshi, Ashutosh kr. Singh, Rajiv Saxena    | 2013 | Closed Form Relations for ICI and BER in FRFT Based OFDM System   | IEEE Int. Advance Computing Conference, (IACC-2013), Feb 22-23, 2013, Ajay kumar Garg college of Engineering, Ghaziabad (UP), India. |
| 127.   | Garima, Amanpreet Kaur  | 2013 | Dual- and Triple- Band U-slot Microstrip Patch Antenna for WLAN Applications  | International Journal of Advanced Research in Computer and Communication Engineering, Vol. 2, Issue 5, May 2013                      |
| 128.   | Deepti Chahar, Amanpreet Kaur   | 2013 | Multiband Proximity Coupled Microstrip Patch Antenna with EBG and DGS Leading to Reduced Harmonic Radiation           | Int. Journal of Advanced Research in Computing and Communication Engineering, vol. 2, Iss. 6, June 2013, pp:2392-2396                |
| 129.   | Richa Sharma, Ms. Amanpreet Kaur  | 2013 | Back Radiation Suppression in Modified Aperture Coupled Microstrip Antenna by using Patches under the Substrate       | IJCT Journals, vol. 6, no. 3, pp. 415-422, May 2013  |
| 130.   | Shreya Kaushal, Dr. Surbhi Sharma   | 2013 | A 2x2 FPGA based WRAP Testbed for Colored Image Transmission in MIMO systems  | International Journal of Science and Modern Engineering, vol. 1, no 6, pp 66-70  |
| 131.   | M. Kumar  | 2013 | Narrow bandwidth and polarization independent design of hollow waveguide in-plane mirror with ultra-wide tuning range | Applied Optics 52, 1847-1851   |
| 132.   | M. Kumar  | 2012 | Polarization insensitive hollow optical waveguide   | Optics Comm., 285 (2012) 2360-2362   |
| 133.   | D. Batra, S. K. Sharma, and Amit Kumar Kohli  | 2012 | Dual-Band Dielectric Resonator Antenna for C and X Band Applications  | International Journal of Antennas and Propagation, vol. 2012, pp. 7  |
| 134.   | Sanjay Sharma, Pawan Kumar Singh  | 2012 | Substrate Noise Analysis of Full Adder Circuit using Nanometre Technology for High-Ohmic Substrate                    | Journal of Computational and Theoretical Nanoscience   |

| S. No. | Author(s)  | Year | Title of Paper  | Name of the Journal, volume/ page numbers,   |
|--------|--|------|---|--|
| 135.   | Shyam Akashe, Sanjay Sharma, S. Bhushan          | 2012 | Modeling and Simulation of High Level Leakage Power Reduction Techniques for 7T SRAM Cell Design                    | Journal of Microelectronic, Electronic Components and Materials, vol. 42, Iss. 2, pp. 83-87          |
| 136.   | Alpana Agarwal and Chandra Shekhar               | 2012 | Technology Limits on Differential Gain and Unity-gain Bandwidth of a Differential Amplifier: A Theoretical Analysis | Journal of VLSI Design Tools and Technology, Volume 2, Issue 2, August 2012, Pages 38-44             |
| 137.   | Sanjay Sharma                                    | 2012 | Modeling and Simulation of Multiple Resonant Lorentz Dispersive Materials for Integrated Optics                     | Optik-Int. Journal of Light and Electron Optics, vol 123, 2068-2071, November 2012                   |
| 138.   | Sanjay Sharma                                    | 2012 | Characterization and Modeling of MIMO Wireless Channels based on Correlation Tensor                                 | International Journal of Computers and Mathematics with Applications, vol. 64, pp. 89-101, July 2012 |
| 139.   | Sanjay Sharma                                    | 2012 | A Novel Weighted Multilevel Space Time Coding Scheme  | International Journal of Computers and Mathematics with Applications, Vol. 63, pp. 280-287, Jan 2012 |
| 140.   | Shyam Akashe, Sanjay Sharma                      | 2012 | Leakage Current Reduction Techniques for 7T SRAM Cell on 45nm Technology  | Wireless Personal Communications, Available online, doi 10/1007/ s11277-012-0805-1                   |
| 141.   | Pardeep Singh. Sanjay Sharma                     | 2012 | A Novel Soft Computing based Retrieval System for Medical Applications  | Applied Artificial Intelligence, Vol. 26, issue 7, pp. 654-661, August 2012.                         |
| 142.   | Shyam Akashe, Sanjay Sharma                      | 2012 | High Density and Low Leakage Current based SRAM cell using 45nm Technology  | International Journal of Electronics, Published online, August 2012                                  |
| 143.   | Shyam Akashe, Sanjay Sharma                      | 2012 | High Density and Low Leakage Current based 5T SRAM cell using 45nm Technology                                       | Romanian Journal of Information Science and Technology   |
| 144.   | Anurag Bhargav, Shyam Akashe, Sanjay Sharma      | 2012 | A Stable Low Power SRAM with High Read Stability  | Journal of Computational and Theoretical Nanoscience, vol.9, No. 8, pp.1049-1054, August 2012        |
| 145.   | Shyam Akashe, Rashmi Bahal, Sanjay Sharma,       | 2012 | Leakage Power Minimization in SRAM by using Standby Voltage   | Journal of Computational and theoretical Nanoscience, Vol.9, No. 8, pp.1040-1043, August 2012.       |
| 146.   | Saurabh Khandelwal, Shyam Akashe, Sanjay Sharma, | 2012 | Supply Voltage Minimization Techniques for SRAM Leakage Reduction   | Journal of Computational and theoretical Nanoscience, Vol.9, No. 8, pp.1044-1048, Aug. 2012.         |
| 147.   | Sunil Bhushan, Shyam Akashe, Sanjay Sharma       | 2012 | Implementation of Technology Scaling on Leakage Reduction Techniques using cadence tools                            | Journal of Computational and Theoretical Nanoscience, Vol.9, No. 12, pp.2155-1059, Dec. 2012.        |
| 148.   | Yogeshwar Singh Randhawa, Sanjay Sharma          | 2012 | Design and Analysis of 6T, 8T and 9T Decanano SRAM cell at 45 nm Technology   | Journal of Computational and Theoretical Nanoscience, vol. 9, no. 10, pp.1686-1692, Oct. 2013.       |

| S. No. | Author(s)  | Year | Title of Paper  | Name of the Journal, volume/ page numbers,  |
|--------|--|------|---|---|
| 149.   | Saurabh Khandelwal, Shyam Akashe, Sanjay Sharma,       | 2012 | Reducing Leakage Power for SRAM Design using Sleep Transistor   | Acta Physica Polonica A   |
| 150.   | Rajeev Ratan, Sanjay Sharma, Amit Kr Kohli             | 2012 | Performance Evaluation of Interpolators using Half Band Filters   | Acta Physica Polonica A   |
| 151.   | Pawan Kumar Singh, Sanjay Sharma                       | 2012 | Substrate Noise Analysis of Full Adder Circuit Using Nanometer Technology for High-Ohmic Substrate  | Journal of Computational and Theoretical Nanoscience, vol. 9, no. 12, pp. 2245-2249, Dec. 2012.                     |
| 152.   | Sanjay Sharma  | 2012 | Low Complexity Look-up Table based Adaptive Predistorter with Fast Convergence and Low Memory Requirements  | EURASIP Journal on Wireless Communication and Networking, doi:10.1186/1687-1499-2012-43, 2012                       |
| 153.   | Sanjay Sharma  | 2012 | Digital Predistortion of Power Amplifiers using Look up table Method with Memory Effects for LTE Systems  | EURASIP Journal on Wireless Communication and Networking, DOI: 10.1186/1687-1499-2012-3302012                       |
| 154.   | Arun & Hardeep Singh                                   | 2012 | Simulation Results for Standard Images by Alternative Approach to Iris Recognition Technology Exploiting Intensity Parameters as well as Dimensional Characteristics of Pupil | International Journal of Computer Science and Information Technology, ISSN No. 0974-8385, vol. 6, no. 2             |
| 155.   | Arun & Hardeep Singh                                   | 2012 | An Alternative Approach to Iris Recognition Technology Exploiting Intensity Parameters as well as Dimensional Characteristics of Pupil and Iris                               | International Journal of Computer Science and Information Engineering, ISSN No. 0976-626X, Vol. 3, No. 2            |
| 156.   | Ms. Himani, Simarpreet Kaur & Hardeep Singh            | 2012 | Investigations on Different Transmission Formats in DWDM Optical Communication System   | International Journal of Computer Engineering and Software Technology, ISSN No. 2229-3086, Vol. 3, No. 1, pp. 25-37 |
| 157.   | Jindal N. and Singh K.                                 | 2012 | Image and Video Processing using Discrete Fractional Transforms   | Signal Image and Video Processing, DOI: 10.1007/s11760-012-0391-4.  |
| 158.   | R. Singh, D. S. Kapoor, R. Kumar, and Amit Kumar Kohli | 2012 | Characterization of Shape Curving Effects on Multi-Band Fractal Antenna Design  | IJCEM, Int. Journal of Computational Engineering & Management, vol. 15, pp. 31 - 34                                 |
| 159.   | A. Agarwal, R. Kumar, Amit Kumar Kohli, and R. Dwivedi | 2012 | Performance Comparison of PCA and ICA Pre-processors in Identification of Individual Gases Using Response of a Poorly Selective Solid-state Sensor Array                      | Sensors and Transducers Journals, vol. 145, No. 10, pp. 191 - 202   |
| 160.   | A. Grover and Amit Kumar Kohli                         | 2012 | Simulation of Impulsive Noise Environment for Orthogonal Frequency Division Multiplexing Wireless Systems   | International Journal of Computing & Business Research  |

| S. No. | Author(s)   | Year | Title of Paper   | Name of the Journal, volume/ page numbers,  |
|--------|---|------|--|---|
| 161.   | A. Grover, Divneet Singh Kapoor, and Amit Kumar Kohli             | 2012 | Characterization of Impulse Noise Effects on Space-Time Block-Coded Orthogonal Frequency Division Multiplexing (OFDM) Signal Reception | International Journal of Physical Sciences, vol. 7. No. 25, pp. 4003 - 4011   |
| 162.   | A. Grover and Amit Kumar Kohli                                    | 2012 | Full-diversity High-rate Space-time Block-coded Systems using Estimated Channel State Information for Symbol Detection                 | International Journal of Physical Sciences, vol. 7. No. 17, pp. 2539 - 2548   |
| 163.   | H. K. Garg, Poonam Gakhar Kohli, & Amit Kumar Kohli               | 2012 | A Review of Neural Signal Processing Paradigms based on Physiological Models for EEG   | Journal of Artificial Intelligence, vol. 03, no. 2, pp. 56 - 73   |
| 164.   | A. Rai and Amit Kumar Kohli                                       | 2012 | Simulation and Analysis of Nonlinear System Identification using LMS Volterra Filter   | Advanced Material Research, vol. 403-408, pp. 3528 - 3537   |
| 165.   | Neha Ahuja, Rajesh Khanna and Jaswinder Kaur                      | 2012 | Design of Single Band Rectangular Patch Antenna for WLAN Application   | International Journal of Computer Applications, vol. irafit1063, no.8, pp.29-31   |
| 166.   | Neha Ahuja, Rajesh Khanna and Jaswinder Kaur                      | 2012 | Dual Band Defected Ground Microstrip Patch Antenna for WLAN/WiMax and Satellite Application  | International Journal of Computer Applications, vol. 48, no. 22   |
| 167.   | Ajay Kakkar   | 2012 | Performance analysis of multiple key multinode network   | International Journal of Research in Engineering & Applied Sciences, Vol.2, Issue 8, pp. 20-27                          |
| 168.   | Ajay Kakkar, Dr. M. L. Singh, Dr. P. K. Bansal                    | 2012 | Mathematical analysis and simulation of multiple keys and S-Boxes in a multinode network for secure transmission                       | International Journal of Computer Mathematics Vol. 89, No. 16, 2012, pp. 2123-2142.                                     |
| 169.   | Ajay Kakkar and Ishan Khera                                       | 2012 | Comparative Study of Scheduling Algorithms for Real Time Environment   | International Journal of Computer Applications, Vol. 44, pp 5-8, 2012   |
| 170.   | Ajay Kakkar and Gaurav Sharma                                     | 2012 | Cryptography Algorithms and approaches used for data security  | International Journal of Scientific and Engineering Research, Vol. 3, pp 1-6, 2012                                      |
| 171.   | Shyam Akashe, Sanjay Sharma                                       | 2012 | Design and analysis of 45 nm low power 32 kb embedded Static Random Access Memory Cell   | International Journal of Physical Sciences, Vol. 7 (9), pp. 1362-1370, Feb. 2012  |
| 172.   | H. D. Joshi and R. Saxena   | 2012 | FRFT based Timing and frequency offset estimation method for OFDM system   | Mediterranean Journal of Electronics and Communications, vol. 8   |
| 173.   | Hem Dutt Joshi, Rajesh Kr Vishwakarma K.K Verma and Sanjay Tiwari | 2012 | Design of Rectangular patch antenna with u-slot  | Nat. Conference on Emerging Trends in Electrical Instrumentation & Communication Engineering (ETEIC-2012), Aligarh, 6-7 |

| S. No. | Author(s)   | Year | Title of Paper  | Name of the Journal, volume/ page numbers,   |
|--------|---|------|---|--|
| 174.   | Manpreet Kaur, Mrs. Amanpreet Kaur                        | 2012 | A Microstrip Patch Antenna with Aperture Coupler Technique At 5.8 GHz & 3.6 GHz                               | International Journal of Modern Engineering Research (IJMER) www.ijmer.com Vol.3, Issue.1, Jan-Feb. 2013 pp-587-594 ISSN: 2249-6645. |
| 175.   | Tanveer Kour Raina, Amanpreet Kaur                        | 2012 | Design of Aperture Coupled Micro-Strip patch Antenna for Wireless Communication applications at 5.8Ghz        | IOSR Journal of Engineering (IOSRJEN) ISSN: 2250-3021 Volume 2, Issue 7(July 2012), PP 96-99   |
| 176.   | Tanveer Kour Raina, Amanpreet Kaur                        | 2012 | Design of Aperture Coupled Micro-Strip patch Antenna for Wireless Communication applications at 10Ghz         | IJEE, Vol 4, No.1, June 2012.  |
| 177.   | Bhasker Gupta and Davinder Singh Saini                    | 2012 | BER Performance Improvement in Coded-OFDM Systems using Equalization Algorithms                               | Advanced Materials Research, Vols. 403-408, PP. 1028-1034  |
| 178.   | Bhasker Gupta and Davinder Singh Saini                    | 2011 | Performance Improvement in OFDM System with Near Shannon Turbo Codes  | International Journal of Systems Simulation, vol. 5, no. 1, pp. 79-83  |
| 179.   | Amandeep Sappal, Sanjay Sharma, Manjeet Singh Patterh     | 2011 | Fast Complex Memory Polynomial based Digital Predistorter   | International Journal of Electronics, Vol 98, No. 7, pp.923-931, June 2011   |
| 180.   | Sanjay Kumar  | 2011 | A Simplified Free Space Adaptive Optics System against Atmospheric Turbulence                                 | International Journal of Electronics   |
| 181.   | Hardeep Singh   | 2011 | Effect of length on WDM dispersion-managed transmission system using dispersion compensating fiber            | Journal of Information and Communication Technologies, U.K, Vol. 1, Issue 2, pp. 42-48   |
| 182.   | Bhawna Utreja & Hardeep Singh                             | 2011 | A Review Paper on Comparison of Optical Amplifiers in Optical Communication Systems                           | Canadian Journal of Electrical and Electronics Engineering, vol.2, no. 11, pp. 505-513   |
| 183.   | Ankush Kansal Jaspreet Kaur; Surjeet Singh;               | 2011 | Multiband Behaviour of Sierpinski Fractal Antenna   | Research Journal of Information Technology Year: 2011 Volume: 3 Issue: 1 Page No.: 35-43   |
| 184.   | Ankush Kansal Lavish Kansal Kulbir Singh                  | 2011 | Performance of Alamouti Space Time Coding in Fading Channels for IEEE 802.16e Protocol                        | International Journal of Scientific & Engineering Research Volume 2, Issue 5, May -2011  |
| 185.   | Sanjay Kumar <sup>1</sup> , Kulbir Singh and Rajiv Saxena | 2011 | Analysis of Dirichlet and Generalized "Hamming" window functions in the fractional Fourier transform domains  | Elsevier-Signal Processing, vol. 91, no. 3, pp. 600-606,   |
| 186.   | Hardeep Singh   | 2011 | Performance Analysis of Channel Spacing in Wavelength Division Multiplexed Optical Fiber Communication System | Journal of Information and Communication Technologies, U.K., Vol. 1, Issue 2, pp. 10-16  |
| 187.   | Ankush Kansal Komal Arora Dr. Kulbir Singh                | 2011 | Comparison of Energy Detection Based Spectrum Sensing Methods over Fading Channels in Cognitive Radio         | Signal Processing: An International Journal (SPIJ), Vol. 5, no 2, 2011, pp 44-51   |

| S. No. | Author(s)   | Year | Title of Paper   | Name of the Journal, volume/ page numbers,   |
|--------|---|------|--|--|
| 188.   | Ankush Kansal<br>Komal Arora<br>Dr. Kulbir Singh                        | 2011 | Spectrum Sensing Using Cyclic Prefix Over Fading Channels and Performance Analysis of Cooperative Detection                          | Journal of Information and Communication Technologies<br>Vol. 1, no. 2, July 2011, pp 25-29              |
| 189.   | Lavish Kansal<br>Kulbir Singh   | 2011 | Performance Analysis of MIMO-OFDM System Using QOSTBC Code Structure for M-PSK   | Signal Processing: An International Journal (SPIJ),<br>Vol. 5, No. 2, 2011, pp 19-32                     |
| 190.   | Ankush Kansal<br>Lavish Kansal<br>Kulbir Singh                          | 2011 | Analysis of Different High Level Modulation Techniques for OFDM System   | International Journal of VLSI and Signal Processing Applications, Vol. 1, Issue 2 ,<br>May 2011, 102-107 |
| 191.   | Ankush Kansal<br>Lavish Kansal<br>Kulbir Singh                          | 2011 | Performance Analysis of MIMO-OFDM System Using QOSTBC Code Structure for M-QAM   | Canadian Journal on Signal Processing Vol. 2, No. 2,<br>May 2011, pp 4-15                                |
| 192.   | Ankush Kansal<br>Lavish Kansal<br>Kulbir Singh                          | 2011 | BER Analysis of MIMO-OFDM System Using OSTBC Code Structure for M-PSK under Different Fading Channels                                | International Journal of Scientific & Engineering Research, Vol. 2, Issue 11, pp<br>1-12.                |
| 193.   | A. Grover and<br>Amit Kumar<br>Kohli                                    | 2011 | Space-time Block-coded Systems using Numeric Variable Forgetting Factor Least Squares Channel Estimator                              | International Journal of Physical Sciences, vol. 6, pp.<br>7361 – 7370                                   |
| 194.   | B. Kaushik, N.<br>Kaur, and Amit<br>Kumar Kohli                         | 2011 | An Enhanced ANN Approach for Optimizing Design of Highly Reliable Variable Sized Computer Networks                                   | Journal of Artificial Intelligence, vol. 02, no. 1,<br>pp. 31 – 41                                       |
| 195.   | A. Sharma, Poonam<br>G. Kohli, D. S.<br>Kapoor, and Amit<br>Kumar Kohli | 2011 | Qualitative Analysis of Membrane Filter used for Bacteria Filtration using Feature Extraction Techniques                             | IJCEM, Int. Journal of Computational Engineering & Management, vol. 13, pp. 70 –<br>77                   |
| 196.   | B. Kaushik, N.<br>Kaur, and Amit<br>Kumar Kohli                         | 2011 | A New ANN Method for Measuring Overall Reliability and Performance in Growing Computer Networks with Static and Variable Connections | IJCSC, International Journal of Computer Science & Communication, vol. 02, no.<br>1, pp. 79 – 87         |
| 197.   | Amrita Rai and<br>Amit Kumar<br>Kohli                                   | 2011 | Analysis of Adaptive Volterra Filters with LMS and RLS Algorithms  | AKG Journal of Technology,<br>vol. 2, no. 1, pp. 09 – 14   |
| 198.   | R. R. Arora, Amit<br>Kumar Kohli, & S.<br>K. Sharma                     | 2011 | Performance evaluation of multirate filters for digital down converters  | International Journal of Physical Sciences, vol. 6, pp.<br>2807 – 2817                                   |
| 199.   | Rajni, Amit<br>Kumar Kohli, and<br>S. S. Pattnaik                       | 2011 | First Order Autoregressive Model considering Azimuthal Scattering  | International Journal of VLSI and Signal Processing Applications, vol. 1, no. 1,<br>pp. 06 – 11          |
| 200.   | Bajjnath Kaushik,<br>Navdeep Kaur,<br>and Amit Kumar<br>Kohli           | 2011 | A New Method for Measuring Overall Reliability and Performance in Growing Computer Networks with Static and Variable Connections     | STM, Journal of Computer Technology & Applications,<br>vol. 2, no. 1, pp. 1 – 14                         |
| 201.   | B. Kaushik, N.<br>Kaur, and Amit<br>Kumar Kohli                         | 2011 | An Optimized ANN Design for Measuring Overall Reliability for Growing Computer Networks with Fixed and Varying Links                 | IJCEM, International Journal of Computational Engineering & Management,<br>vol 11, pp. 12 – 21           |



| S. No. | Author(s)   | Year | Title of Paper   | Name of the Journal, volume/ page numbers,   |
|--------|---|------|--|--|
| 202.   | Amit Kumar Kohli, A. Rai, and Mehar Krishna Patel | 2011 | Variable forgetting factor LS algorithm for polynomial channel model                         | ISRN Signal Processing, vol. 2011, pp. 1 - 4   |
| 203.   | Jaswinder Kaur, Rajesh Khanna and M.V. Kartikeyan | 2011 | Comparison of Un-slotted and Slotted Rectangular MSA for Wireless Applications               | MIT Int. Journal of Electronics & Communication Engineering, vol.1, no. 2, pp. 57-59                                 |
| 204.   | Rakesh Tripathi, Rajesh Khanna and Jaswinder Kaur | 2011 | Compact Broadband Microstrip Patch Antenna with Chip Resistor Loading                        | Indian Stream Research Journal, vol. 1, issue 5  |
| 205.   | Ajay Kakkar, M. L. Singh, P. K. Bansal            | 2011 | Dynamic Path Management Scheme for Multinode Network   | IJCEA-TJ-02-21,  |
| 206.   | Ajay Kakkar, M. L. Singh, P. K. Bansal            | 2011 | Analysis of Multiple Keys for Variable Data Length in Multinode Network for Encryption       | International journal of Engineering Science and Technology  |
| 207.   | Ajay Kakkar, Piyush Jain, Sunil K. Singla;        | 2011 | Optimized Elevator by using PLC and HMI  | Int. Journal of Science, Technology and Management, Vol 2, pp.35 - 41.   |
| 208.   | Ajay Kakkar Dr. M. L. Singh, Dr. P. K. Bansal     | 2011 | Key distribution scheme for Multinode Network  | Int. Journal of Computer Applications Special Issue on Network Security and Cryptography NSC, Vol. 5, pp 30-34, 2011 |
| 209.   | Mayank Kumar Rai and Sankar Sarkar                | 2011 | Influence of tube diameter on carbon nanotube interconnect delay and power output,           | Physica status solidi (a), vol.208, no.3,pp.735-739  |
| 210.   | S.Sarkar, Mayank Kumar Rai                        | 2011 | Carbon Nanotube Based Interconnects for VLSI Application                                     | Journal of The Institution of Engineers (I): Series B, Springer,Formerly IE(I) Journal - E T, Vol. 91                |
| 211.   | Govind Singh Patel and Sanjay Sharma              | 2011 | DDS based hybrid PLL synthesis tech  | Lingayas National journal, pp. 14-19, no 1, vol. 5   |
| 212.   | Pawan Kumar Singh, Sanjay Sharma                  | 2011 | Substrate noise coupling in NMOS transistor for RF/analog circuits                           | International Journal of Physical Sciences, Vol. 6 (9), pp. 2285-2293, May 2011                                      |
| 213.   | Shivani Verma, Kumar S                            | 2011 | An FPGA realization of simplified turbo decoder architecture                                 | International Journal of Physical Sciences, Vol. 6 (10), pp. 2238-2247, may 2011.                                    |
| 214.   | Govind Singh Patel, Sanjay Sharma                 | 2011 | Frequency synthesis techniques for high speed communication system                           | International Journal of Physical Sciences, Vol 6 (11), pp. 2618-2632, June 2011                                     |
| 215.   | Shyam Akashe, Sanjay Sharma                       | 2011 | Look ahead dynamic threshold voltage control for enhanced write margin of 45 NM 7T-SRAM cell | International Journal of Physical Sciences, Vol 6 (11), pp. 2613-2617, June 2011                                     |
| 216.   | Shyam Akashe, Sanjay Sharma, Manish Dev Singh     | 2011 | Leakage power reduction techniques of 45 nm static random access memory (SRAM) cells         | International Journal of Physical Sciences, Vol 6 (32), pp. 7341-7353, December 2011                                 |

| S. No. | Author(s)   | Year | Title of Paper   | Name of the Journal, volume/ page numbers,  |
|--------|---|------|--|---|
| 217.   | Rajeev Ratan, Amit Kumar Kohli, Sanjay Sharma                                   | 2011 | Performance Evaluation of Multirate Filters for Digital Down Converters  | International Journal of Physical Sciences, Vol.6 No.12 pp 2807-2817, 2011                          |
| 218.   | R. Saxena and H. D. Joshi   | 2011 | A new peak clipping algorithm for PAPR reduction in OFDM   | Electrical and Electronics Engineering, Scientific and Academic Publisher, USA, vol. 1              |
| 219.   | R. Saxena and H. D. Joshi   |      | FRFT based timing estimation method for an OFDM system   | Accepted for publication in Pertanika Journal of Science and Technology                             |
| 220.   | H. D. Joshi and R. Saxena   | 2011 | PAPR reduction in OFDM systems using precoding with clipping   | IEEE Int. Conference on Communications, Computing and Control Applications (CCCA'11), 2011, Tunisia |
| 221.   | Alpana Agarwal & Chandra Shekhar  | 2011 | Synthesis of Analog IC Building Blocks   | Int. Annual IEEE Symposium on VLSI (ISVLSI), Chennai, India, 2011                                   |
| 222.   | Surbhi Sharma, Dr. Rajesh Khanna  | 2011 | LDPC concatenated space-time block coded system in multipath fading environment: Analysis and evaluation   | Maejo Int. Journal of Science and Technology Vol 5 no 02, pp 204-214                                |
| 223.   | Aashu taneja, Surbhi Sharma   | 2011 | Real time channel estimation for SISO OFDM system on test bed  | Int. Journal of Applied Engineering and Research, vol 6, no 5, pp 595-598                           |
| 224.   | Amit Kumar Kohli and D. K. Mehra  | 2010 | Adaptive DFE multiuser receiver for CDMA systems using two-step LMS-type algorithm - An equalization approach                                    | Wireless Personal Communications, vol. 54, no. 3, pp. 543 - 558                                     |
| 225.   | Alpana Agarwal & Chandra Shekhar  | 2010 | Area-constrained Design of Differential Input Stage for A Two-stage Compensated Operational Amplifier  | Journal of Electron Devices, Vol. 7, pp. 250-256  |
| 226.   | Cherry Bhargav and Hardeep Singh  | 2010 | A Review Paper on Different Techniques to Minimize Temperature Effect in Chromatic Dispersion  | International e-Journal of Computer & Electronics, vol. 5, pp. 25 - 29                              |
| 227.   | Parul Gaur and Hardeep Singh  | 2010 | Comparative Performance Analysis of FFH and MCFH Spread Spectrum System With Maximal Ratio Diversity Combining in Slowly Rayleigh Faded Channels | International e-Journal of Computer & Electronics, vol. 5, pp. 14 - 24                              |
| 228.   | Poonam G. Kohli, B. K. Randhawa, K. D. Singh, G. S. Randhawa, and Amit Kr Kohli | 2010 | Relationship between CCT and IOP in Punjabi population   | Journal of Medical Engineering & Technology, vol. 34, no. 1, pp. 1 - 6                              |
| 229.   | R. P. Singh and Amit Kumar Kohli  | 2010 | Performance Analysis of MIMO Space-Time Block Coded System in Nakagami Fading Channel with Arbitrary Fading                                      | Journal of Telecommunications, vol. 6, no. 1, pp. 1-5   |
| 230.   | R. R. Arora, S. K. Sharma, and Amit Kumar Kohli                                 | 2010 | VLSI implementation of CIC filters   | Int. e-Journal Numerical Analysis and Related Topics, vol. 5, pp. 24 -31                            |

| S. No. | Author(s)   | Year | Title of Paper  | Name of the Journal, volume/ page numbers,   |
|--------|---|------|---|--|
| 231.   | R. P. Singh, Amit Kumar Kohli, and Neha Singh     | 2010 | Estimation of carrier frequency offset for OFDM system  | International e-Journal of Communications and Electronics, vol. 5, pp. 59 - 67                                 |
| 232.   | Amrita Rai and Amit Kumar Kohli                   | 2010 | Analysis and Simulation of Adaptive filter with LMS Algorithm                                 | IJEE Int. Journal of Electronics Engineering, vol. 2, no. 1, pp. 121 - 123                                     |
| 233.   | Ajay Kakkar Dr. M. L. Singh, Dr. P. K. Bansal     | 2010 | Efficient Key Mechanisms in Multi-Node Network for Secured Data Transmission                  | International Journal of engineering Science and technology, pp. 787-795, 2010                                 |
| 234.   | Pardeep Singh, Sanjay Sharma                      | 2010 | Soft Computing Based Medical images retrieval System and Future Challenges                    | Journal of Electronics and Computers, vol. 4 , pp. 1-10  |
| 235.   | Shyam Akashe, Sanjay Sharma                       | 2010 | Low Power Based SRAM Cell Design based on 7T Configuration                                    | Journal of Electronics and Computers, vol. 4 , pp. 1-10  |
| 236.   | Shyam Akashe, Sanjay Sharma                       | 2010 | A 2-ns Cycle, 3.8-11s Access 512-kb CMOS ECL SRAM with a Fully Pipelined Architecture         | International Journal of Computer Engg , Vol. 2, No.2, pp.131-139  |
| 237.   | Shyam Akashe, Sanjay Sharma                       | 2010 | Low-Power, High Speed CMOS VLSI Design  | International Journal of Electronics and Computers, vol. 2, pp. 131-139  |
| 238.   | Shyam Akashe, Sanjay Sharma, Shyam Babu           | 2010 | Multi-Threshold CMOS Design for Low Power Digital Circuits                                    | International Journal of Engineering Practices, Vol. 2, No.1, pp.111-118                                       |
| 239.   | Shyam Akashe, Sanjay Sharma, Govind Das Gautam    | 2010 | Transistor Sizing for Low power CMOS Circuits   | International Journal of Nano System, Nano Engineering and Nano Technology Practices , Vol. 2, No.1 pp.121-129 |
| 240.   | Shyam Akashe, Sanjay Sharma, Govind Das Gautam    | 2010 | Minimizing Power Consumption of Static CMOS Circuits by Transistor Sizing and Input Recording | International Journal of Electrical System and Control Vol. 2, No.2, pp.15-22                                  |
| 241.   | Shyam Akashe, Sanjay Sharma, Soveran Singh Dhakad | 2010 | Dynamic Zero Compression for Cache Energy Reduction   | International Journal of Power Engineering Vol. 2, No.2, pp 31-39.   |
| 242.   | Shyam Akashe, Sanjay Sharma, Soveran Singh Dhakad | 2010 | Cache Leakage: A Leakage Aware Cache Simulator  | International Journal of Computing Application Vol. 5, No.2, pp.11-18  |
| 243.   | Shyam Akashe, Sanjay Sharma, Deepak Sinha         | 2010 | A Low-Leakage Current Power 45-nm CMOS SRAM   | Indian Journal of Science & Technology, Vol. 4, No4, pp. 19-21   |
| 244.   | Govind Singh Patel, Sanjay Sharma                 | 2010 | Comparative analysis of different PLL synthesis tech. for communication system                | Journal of Electronics and Computers, vol.5, pp. 38-49   |
| 245.   | Govind Singh Patel, Sanjay Sharma                 | 2010 | Comparative study of PLL , DDS and DDS based PLL synthesis tech. for comm.. system.           | International journal of electronics engg. Vol.2, no. 1,pp. 35-40  |
| 246.   | Dharmvir and Sanjay Sharma                        | 2010 | Frame errorrate and outage capacity of 2-PSK/8-PSK space time trellis code                    | Journal of Electronics and Computers, vol.5, pp. 1-3   |

| S. No. | Author(s)  | Year | Title of Paper  | Name of the Journal, volume/ page numbers,  |
|--------|--|------|---|---|
| 247.   | Pawan K Singh , Shashikant Nayak and Sanjay Sharma           | 2010 | Susstrate noise coupling :A study for the impact and remedies   | Journal of Electronics and Computers, vol. 5, pp. 50-58.  |
| 248.   | Mohit Kumar, Jitender S Kuntal , Pawan K Singh, SanjaySharma | 2010 | Optimized structure implementation on of divider for predistortion algorithms   | Journal of Electronics and Computers, vol. 5, pp. 68-76.  |
| 249.   | Yogeshwer Singh Randhawa and Sanjay Sharma                   | 2010 | Static and dynamic stability improvement strategies for 6t CMOS power SRAM  | Journal of Electronics and Computers, vol. 5, pp. 77-87.  |
| 250.   | Charanjit Singh, Manjeet and Sanjay Sharma                   | 2010 | Digital Up converter for WIMAX system   | International Journal of Engineering Science and Technology Vol. 2(9), 4571-4575  |
| 251.   | Charanjit Singh, Manjeet and Sanjay Sharma                   | 2010 | Efficient Implementation of Sample Rate Converter   | Int. Journal of Advanced Computer Science and application, Vol. 1, No. 6, pp.35 -44   |
| 252.   | Charanjit Singh, Manjeet and Sanjay Sharma                   | 2010 | WiMAX Standars and Implementation challenges  | International Journal of Latest Trends in Computing Volume 1, Issue 1, pp. 12-17  |
| 253.   | Amandeep Sappal, Sanjay Sharma, Manjeet Singh                | 2010 | A Novel Black Box Behavioral Model for Power Amplifier for WCDMA Applications   | International Journal of Communications and network, Vol. 2, pp. 162-165, 2010  |
| 254.   | Amandeep Sappal, Sanjay Sharma, Manjeet Singh                | 2010 | Mitigation of Non-Linear Impairments of WCDMA Power Amplifier   | International Journal of Computer Science and Communication, Vol. 1, pp-409-413, 2010   |
| 255.   | Harpal Singh and Kulbir Singh                                | 2010 | Spatial domain techniques for waetrrmark embedding and detection  | International conference on Engineering Innovation: A fillip to economic development, CGIS, Balwera, 18-20 Feb., 2010.  |
| 256.   | Hem Dutt Joshi and Rajiv Saxena                              | 2010 | Effect of Doppler Spreading in Un-Coded OFDM Systems  | National Conference on Education & Research (ConFR10), Third CSI National Conference of CSI Division V, Region III, Bhopal Chapter, IEEE Bombay, and MPCST Bhopal |
| 257.   | Surbhi Sharma, Rajesh Khanna                                 | 2010 | BER evaluation of LDPC codes with in Nakagami fading channel  | ICTACT Journal on Communication Technology, vol. 1 no 2 , pp 56-59  |
| 258.   | Rajneesh Talwar and A.K.Chatterjee                           | 2009 | Estimation of Power Dissipation of a 4H-SiC Schottky Barrier Diode with a Linearly Graded Profile in the Drift Region | Maejo International Journal of Science & Technology   |
| 259.   | Kulbir Singh, Vinit Grewal and Rajiv Saxena                  | 2009 | Fractal Antennas: A Novel Miniaturization Technique for Wireless Communications                                       | International Journal of Recent Trends in Engineering, Vol 2, No. 5, pp 172-176   |

| S. No. | Author(s)  | Year   | Title of Paper   | Name of the Journal, volume/ page numbers,                                   |
|--------|--|--------|--|--|
| 260.   | Kulbir Singh, Rajiv Saini and Rajiv Saxena               | 2009   | Performance of Wavelet, Fractional Fourier and Fractional Cosine Transform in Image Compression  | International Journal of Recent Trends in Engineering, Vol2, No. 7, pp 43-45 |
| 261.   | D. Batra, S. K. Sharma, and Amit Kumar Kohli             | 2009   | Improved parameter estimation for first-order Markov process                                     | Journal of Electrical and Computer Engineering, vol.2009, pp. 2              |
| 262.   | D. Batra, S. K. Sharma, and Amit Kumar Kohli             | Sep-09 | Improved QR Decomposition Application Implemented on Reconfigurable Fabric                       | International e-Journal of Communications and Electronics, vol. 3, pp. 1 - 7 |
| 263.   | Sanjay Sharma, Amandeep Singh, Manjit Singh              | 2009   | Power Amplifier Linearization using Digital Pre-distorter  | Journal of Electronics and Computers, vol. 2 , pp. 1-9                       |
| 264.   | Manish Gupta, Sanjay Sharma                              | 2009   | Highly Directive Patch Antenna Using Planar Metamaterial   | Journal of Electronics and Computers, vol. 2 , pp. 40-48                     |
| 265.   | Nikhil Marriwala, Sanjay Sharma                          | 2009   | Pspice Simulation of an Accurate Software-Defined Radio Model                                    | Journal of Electronics and Computers, vol. 2 , pp. 29-39                     |
| 266.   | Rajeev Ratan Arora, Sanjay Sharma, S. K. Sharma          | 2009   | Brain Tumor Detection Based on Multi-Parameter MRI Image Anaysis                                 | Int. Journal of Graphics, Vision and Image Processing, Vol 9, No. 3, pp 9-17 |
| 267.   | Sanjay Sharma, Charanjeet Singh, Manjit Singh            | 2009   | Trading-Off VLSI Architectures of FIR Filters for Speed, Area and Power on Reconfigurable fabric | Journal of Electronics and Computers, vol. 3 (Special issue), pp. 1-10       |
| 268.   | Govind Singh Patel, Sanjay Sharma                        | 2009   | Design of an All Digital Phase locked Loop   | Journal of Electronics and Computers, vol. 3 (Special issue), pp. 11-21      |
| 269.   | Deepak Batra, Amit Kumar Kohli, Sanjay Sharma            | 2009   | Improved Parameter Estimation for First Order Markov Process                                     | Research Letters in Signal Processing, vol. 2009, Article ID 186250, pp. 1-2 |
| 270.   | Deepak Batra, Sanjay Sharma, Amit Kumar Kohli            | 2009   | Improved QR Decomposition Application Implemented on Reconfigurable Fabric                       | Journal of Electronics and Computers, vol. 3 ,pp. 1-7                        |
| 271.   | Naveen Rathi, Sanjay Sharma                              | 2009   | Performance Analysis of Cholesky Factorization for VLSI Implementation of MIMO-OFDM Systems      | Journal of Electronics and Computers, vol. 3 ,pp. 1-10                       |
| 272.   | Charanjit Singh and Sanjay Sharma, Manjit Singh          | 2009   | Trading off VLSI architecture of FIR filter for speed, area and power on reconfigurable fabric   | Journal of Electronics and Computers, vol. 3, pp. 86-95                      |
| 273.   | Charanjit Singh, Manjeet Singh Patterh and Sanjay Sharma | 2009   | Design of programmable digital down converter for WiMAX  | Indian Journal of Science and Technology Vol.2 No 3 ,6846 pg20-21            |
| 274.   | Deepak Batra, Rajeev Ratan, Sanjay Sharma                | 2009   | Axis controlled movement of robot using brushless DC motor drive                                 | Indian Journal of Science and Technology, vol. 2 , issue 4, pp. 36-39        |
| 275.   | Sanjay Sharma, Charanjeet Singh, Manjit Singh            | 2009   | Design of programmable digital down converter for WiMAX  | Indian Journal of Science and Technology, vol.2 issue 3, pp.2021             |

| S. No. | Author(s)  | Year | Title of Paper   | Name of the Journal, volume/ page numbers,   |
|--------|--|------|--|--|
| 276.   | Sanjay Sharma, Amandeep Singh, Manjit Singh                  | 2009 | Mathematical modeling of power amplifier with memory effects                   | Indian Journal of Science and Technology, vol. 2, issue 3, pp. 22-23   |
| 277.   | Rajeev rattan, Sanjay Sharma, S. K. Sharma                   | 2009 | Multiparameter segmentation and quantization of brain tumor from MRI images    | Indian Journal of Science and Technology, vol. 2. Issue 2, pp. 11-15   |
| 278.   | Kulbir Singh, Navdeep Singh, Parvinder Kaur and Rajiv Saxena | 2009 | Image Compression By Using Fractional Transforms                               | International Conference on Advances in Recent Technologies in Communication and Computing, 27-28 Oct. 2009, Kottayam, India |
| 279.   | Surbhi Sharma, Rajesh Khanna                                 | 2009 | Analysis of LDPC with optimum combining, International journal of Electronics, | International Journal of Electronics, vol 96, no 8, august 2009, pp 803-811  |
| 280.   | Surbhi Sharma, Rajesh Khanna                                 | 2009 | Performance evaluation of LDPC codes in various fading channels                | Journal of Cooperation among University, Research and Industrial Enterprises, vol. 2 no 1 , pp-15-23                         |
| 281.   | Simranjit Singh, Surbhi Sharma, R. Khanna                    | 2009 | Performance of Uncoded and LDPC Coded MSK and GMSK in Nakagami Fading          | International Journal of Recent Trends in Engineering, vol 2 no 6, pp 43-49  |

ELECTRICAL & INSTRUMENTATION ENGINEERING DEPARTMENT

| S. No | Title of Paper  | Journal   | Authors   |
|-------|---|---|---|
| 1.    | Ambient air quality during wheat and rice crop stubble burning episodes in Patiala  | Atmospheric Environment, vol. 43, pp. 243 - 244, 2009                                     | Susheel Mittal, Nirankar Singh, <b>Ravinder Agarwal</b> , <b>Amit Awasthi</b> , Prabhat Kumar Gupta     |
| 2.    | Effect of rice-straw burning on pulmonary functions of human being in Patiala   | Journal of Medical Engineering & Technology, vol. 34, pp. 23-28, 2010                     | <b>Ravinder Agarwal</b> , <b>Amit Awasthi</b> , Prabhat Kumar Gupta, Nirankar Singh Susheel Mittal      |
| 3.    | Impact of rice crop residue burning on levels of SPM, SO <sub>2</sub> and NO <sub>2</sub> in the ambient air of Patiala               | International Journal of Environmental Analytical Chemistry, vol. 90, pp. 829-843, 2010   | Nirankar Singh, Susheel Mittal, <b>Ravinder Agarwal</b> , <b>Amit Awasthi</b> , Prabhat Kumar Gupta     |
| 4.    | Interpretations of wrist operations from Surface-EMG signals at different locations on arm along with acupressure points              | IEEE Transaction on Biomedical Circuits and Systems, vol. 4, pp. 101-111, 2010            | <b>Ravinder Agarwal</b> , Hardeep Singh Ryait, A.S.Arora  |
| 5.    | Study of issues in the development of surface EMG controlled human hand   | Journal of Materials Science: Materials in Medicine, vol. 20 pp. S107-S114, 2009          | Hardeep S. Rayat, A.S.Arora, <b>Ravinder Agarwal</b>  |
| 6.    | A prospective on voltage regulation of self-excited induction generator for industry applications                                     | IEEE Transactions on Industry Applications, vol. 46, pp. 720-731, 2010                    | <b>Yogesh Chauhan</b> , <b>Sanjay Jain</b> , Bhim Singh   |
| 7.    | Effects of agriculture crop residue burning on children and young on PFT's in North West India  | Science of the Total Environment, vol. 408, pp 4440-4445, 2010                            | Amit Awasthi, Nirankar Singh, Susheel Mittal, Prabhat Kumar Gupta, <b>Ravinder Agarwal</b>              |
| 8.    | Monitoring and grading of tea by computer vision: A review  | Journal of Food Engineering, vol. 106, pp 13-19, 2011.                                    | Gagandeep Singh Gill, Amod Kumar, <b>Ravinder Agarwal</b>   |
| 9.    | Study of size and mass distribution of particulate matter due to crop residue burning with seasonal variation in rural area of Punjab | Journal of Environmental Monitoring, vol. 13 pp. 1073-1081, 2011                          | <b>Ravinder Agarwal</b> , Susheel Mittal, Nirankar Singh, Khan Singh, Prabhat Kumar Gupta, Amit Awasthi |
| 10.   | SEMG signal analysis at acupressure points for elbow movement.  | Journal of Electromyography and Kinesiology, vol. 21, pp.868-878, 2011                    | Hardeep S. Rayat, A. S. Arora, <b>Ravinder Agarwal</b>  |
| 11.   | Optimizing the rotation and translation of fingerprint images using genetic algorithm   | International Journal of Applied Artificial Intelligence, vol. 26, pp. 541-553, 2012      | Sunil Singla, Ajat Shatru Arora   |
| 12.   | Challenges at different stages of an iris based biometric system  | Songklanakarin International Journal of Science and Technology, vol.34, pp. 189-194, 2012 | <b>Sunil Singla</b> , Parul Sethi   |
| 13.   | A new efficient method for load-flow solution for radial distribution networks  | Przeglad Elektrotechniczny (Electrical Review), vol.12, pp. 66-73,2011                    | Kultar Deep Singh, <b>Smarajit Ghosh</b>  |
| 14.   | Voltage stability index and Line loadability index for radial power distribution networks   | International Review of Electrical Engineering, vol. 6, pp-3111-3121, 2011                | Kultar Deep Singh, <b>Smarajit Ghosh</b>  |
| 15.   | Secure SIP from DoS based message   | International Journal of Computer   | Ruhul Islam, <b>Smarajit</b>  |

| S. No | Title of Paper   | Journal  | Authors   |
|-------|--|--|---|
|       | flooding attack  | Applications in Engineering Sciences, vol. 1, pp. 112-117, 2011  | <b>Ghosh</b>  |
| 16.   | Performance of self-excited induction generator with cost-effective static compensator                                   | International Journal of Science and Technology, vol. 6, pp. 12-27, 2012                                     | <b>Yogesh K. Chauhan, Sanjay K. Jain</b> , Bhim Singh                                       |
| 17.   | Genetic algorithm based optimum performance of compensated self-excited induction generator                              | International Journal of Modelling and Simulation, vol. 31, pp. 263-268, 2011                                | <b>Yogesh K. Chauhan, Sanjay Jain</b> , Bhim Singh  |
| 18.   | Improved performance of multilevel inverter based distribution STATCOM with induction furnace load                       | IET Power Electronics, vol. 6, pp.1-9, 2013  | <b>Parag Nijhawan</b> , R.S. Bhatia, D.K. Jain  |
| 19.   | Effect of varying contrast ratio and brightness non-uniformity over human attention and tunnelling aspects in aviation   | International journal of Electronics and Communication Engineering and Technology, vol. 3, pp. 400-412, 2012 | Vinod Karar, <b>Smarajit Ghosh</b>  |
| 20.   | Soft computing based HUD brightness switching system for mitigating tunnelling effect                                    | International Journal of Electronics and Computer Engineering, vol. 3, pp. 919-925, 2012                     | Vinod Karar, <b>Smarajit Ghosh</b>  |
| 21.   | Preview control: a Review  | Przegląd Elektrotechniczny, vol. R. 89 NR 2a, pp. 134-138, 2013  | <b>Vikram, Sunil Singla</b> , Lillie Dewan  |
| 22.   | Realization of SEMG based multifunctional prototype elbow prosthesis   | International Journal of Biomedical Engineering and Technology, vol. 9, pp. 72-87, 2012                      | Hardeep S. Rayat, A. S. Arora, <b>Ravinder Agarwal</b>                                      |
| 23.   | Effects of exposure to rice-residue burning on pulmonary functions and oxygen saturation level of human being in Patiala | Science of the Total Environment, vol. 429, pp. 161-166, 2012  | <b>Ravinder Agarwal</b> , Amit Awasthi, Nirankar Singh, Susheel Mittal, Prabhat Kumar Gupta |
| 24.   | State-of-the-art in water flow calibration – A review  | MAPAN – Journal of Metrology Society of India, vol. 27, pp. 63-76, 2012                                      | S K Jaiswal, Sanjay Yadav , <b>Ravinder Agarwal</b>   |
| 25.   | Using impedance control method to achieve signal integrity in biomedical equipment                                       | Instrumentation Science and Technology, vol. 40, pp. 476-489, 2012   | Surinder Singh, <b>Ravinder Agarwal</b> , VR Singh  |
| 26.   | Non-destructive grading of black tea based on physical parameters by texture analysis                                    | International Journal of Bio-system Engineering, vol.1, pp. 198-204, 2013                                    | GagandeepSingh Gill, Amod Kumar, <b>Ravinder Agarwal</b>                                    |
| 27.   | Multi –objective short-term hydrothermal generation scheduling using predator-prey optimization                          | Applied Soft Computing, vol. 21, pp. 1708-1730, 2012   | <b>Nitin Narang</b> , JS Dhillon, D.P. Kothari  |
| 28.   | Multi-objective fixed head hydrothermal scheduling using integrated predator-prey optimization and Powell search method  | International Journal of energy vol. 47, pp. 237-252, 2012   | <b>Nitin Narang</b> , JS Dhillon, DP Kothari  |
| 29.   | Operating performance of static series compensated three-phase self-excited induction generator                          | Electrical Power & Energy Systems, vol. 49, pp. 137-148, 2012  | <b>Yogesh K. Chauhan, Sanjay Jain</b> , Bhim Singh  |
| 30.   | Performance of self-excited induction generator with cost-effective static compensator                                   | International Journal of Science and Technology, vol. 6, pp.12-27, 2012                                      | <b>Yogesh Chauhan, Sanjay Jain</b> , Bhim Singh   |



| S. No | Title of Paper  | Journal  | Authors   |
|-------|---|--|---|
| 31.   | Optical character recognition based speech synthesis system using labview   | Journal of Applied Research and Technology<br>vol. 12, pp. 919-926, 2014                                     | <b>Sunil Singla</b> , R K Yadav   |
| 32.   | EEG based biometric framework using time and frequency domain features  | Journal of Medical Imaging and Health Informatics. vol. 4, pp. 593-599, 2014                                 | Puneet Mishra, <b>Sunil K. Singla</b>   |
| 33.   | Artifact removal from biosignal using fixed point ica algorithm for pre-processing in biometric recognition                                     | Measurement Science Review, vol. 13, pp. 7-11, 2013  | Puneet Mishra, <b>Sunil Singla</b>  |
| 34.   | Comparative analysis of tuning a PID controller using intelligent methods   | Journal of Medical Imaging and Health Informatics. vol.11, pp. 235-248, 2014.                                | <b>Vikram Chopra</b> , <b>Sunil Singla</b>  |
| 35.   | Estimation of tunneling effect due to luminance non-uniformity in head-up displays  | Chinese Optics Letters, vol.12, pp. 013301-1 -013301-6, 2014   | Vinod Karar , <b>Smarajit Ghosh</b>   |
| 36.   | Attention Tunnelling: effects of limiting field of view due to beam combiner frame of head-up display   | IEEE/OSA Journal of Display Technology vol. 10, pp. 582-589, 2014  | Vinod Karar, <b>Smarajit Ghosh</b>  |
| 37.   | Weight pattern evaluation for multi objective hydrothermal generation scheduling using hybrid search technique                                  | International Journal of Electrical Power and Energy Systems, vol. 62, pp. 665-678, 2014                     | <b>Nitin Narang</b> , J S Dhillon, D P Kothari  |
| 38.   | Scheduling short term hydrothermal generation using predator prey   | Applied Soft Computing vol. 21, pp-298-308, 2014   | <b>Nitin Narang</b> , J S Dhillon, D P Kothari  |
| 39.   | A statistical model to quantify the effect of pollution loading due to field crop residue burning on PFTs of healthy subjects                   | MAPAN Journal of Metrology Society of India, vol. 29, pp. 57-65, 2014  | <b>Ravinder Agarwal</b> , Amit Awasthi, Susheel Mittal, Nirankar Singh, Prabhat Kumar Gupta |
| 40.   | Non-invasive technique based evaluation of electromyogram signals using statistical algorithm   | International Journal of Advanced Research in Computer Engineering & Technology, vol. 3, pp. 1987-1991, 2014 | Tanu Sharma, Karan Veer, <b>Ravinder Agarwal</b>  |
| 41.   | Comparative performance analysis of 3-phase cascaded h-bridge multilevel inverters feeding induction furnace load                               | Wulfenia Journal, vol. 21, pp. 356-368, 2014   | <b>Parag Nijhawan</b> , Ravinder Singh Bhatia, Dinesh Kumar Jain                            |
| 42.   | Performance comparison of different control techniques based Z-source inverter and multi-pulse converters duo feeding DTC induction motor drive | Ciencia E Tecnica, vol. 29, pp. 254-283, 2014  | Aayushee Shokhand , <b>Parag Nijhawan</b>   |
| 43.   | Investigations on the effectiveness of 12-pulse Z-source converter based DSTATCOM in a distribution network with DTC induction motor drive      | Ciencia E Tecnica, vol. 29, pp. 142-155, 2014  | <b>Parag Nijhawan</b> , Aayushee Shokhand   |
| 44.   | An information fusion based method for liver classification using texture analysis of ultrasound images   | Information Fusion, vol. 19, pp. 91-96, 2014   | <b>Mandeep Singh</b> , S Singh , S. Gupta   |
| 45.   | Performance comparison and analysis of soft output viterbi algorithm (SOVA) and berlekamp massey algorithm                                      | International Journal Global Sci-Tech, vol.1 , pp.129 -135 , 2009  | <b>Singh Yaduvir</b> , <b>Randhawa H K S</b> , <b>Bansal P K</b>                            |

| S. No | Title of Paper   | Journal   | Authors  |
|-------|--|---|--|
| 46.   | Comparative analysis of fuzzy logic based power system stabilizer using different membership functions | International Journal of Computer and Electrical Engineering, vol. 2, pp. 262-267, 2010           | <b>Sanjay K. Jain</b> , Neeraj Gupta;                                    |
| 47.   | An efficient fuzzy-logic based control of heat exchanger system  | International Journal of Digital Image Processing, vol.2, pp.1-10, 2010                           | <b>Yaduvir Singh</b> , Padhee Subhransu                                  |
| 48.   | Non-linear and optimal direct torque control of AC drive using fuzzy-GA                                | International Journal of Computer Science and Network Security, vol. 9, pp.20- 215, 2009          | <b>Yaduvir Singh</b> , Malhotra Rahul ,Singh Narinder                    |
| 49.   | Direct torque control of PWSM with a two level inverter using MATLAB/SIMULINK                          | International Journal of Engineering and Information Technology, vol. 2, pp. 10-15, 2010          | Anit Pal Singh, <b>Shakti Singh</b> , <b>Sarathbabu Duvvuri</b>          |
| 50.   | Non-linear and optimal direct torque control of ac drive using fuzzy-GA                                | International Journal of Computer Science and Network Security, vol. 9, pp.20- 215, 2009          | <b>Singh Yaduvir</b> , Malhotra Rahul ,Singh Narinder                    |
| 51.   | Classification of cardiac arrhythmia detection using artificial neural network - A Review              | International Journal of Neural Networks and Applications, vol. 3, pp. 33-37, 2010.               | <b>Mandeep Singh</b> , Vijay Kumar, Manoj Kumar                          |
| 52.   | A novel approach for distribution planning in an unstructured environment                              | International Journal of Computer and Electrical Engineering, vol. 1, pp.362–367, 2009            | Sandeep Chakravorty, <b>Smarajit Ghosh</b>                               |
| 53.   | A hybrid model of distribution planning  | International Journal of Computer and Electrical Engineering, vol. 1, pp.368–374, 2009            | Sandeep Chakravorty, <b>Smarajit Ghosh</b>                               |
| 54.   | Fuzzy based efficient load flow analysis   | International Journal of Computer and Electrical Engineering, vol. 1, pp.429–434, 2009.           | Sandeep Chakravorty, <b>Smarajit Ghosh</b>                               |
| 55.   | Power distribution planning using multi-criteria decision making method                                | International Journal of Computer and Electrical Engineering, vol. 1, pp.622–627, 2009            | Sandeep Chakravorty, <b>Smarajit Ghosh</b>                               |
| 56.   | Secure sip from DoS based message flooding attack  | International Journal of Computer Applications in Engineering Sciences, vol. I, pp. 112-117, 2011 | Ruhul Islam, <b>Smarajit Ghosh</b>                                       |
| 57.   | Violence management through meditation : An analysis   | International Journal of Innovation Creativity and Mangement. vol. 1, pp. 69-78, 2011.            | <b>Mandeep Singh</b> , Neeraj Pandey, Rajesh Khanna, Anurag Joshi        |
| 58.   | Principles of QRS detection in ECG: A review   | International Journal of Applied Engineering Research, vol. 6, pp. 763-769, 2011                  | <b>Mandeep Singh</b> , Amit kumar Manocha                                |
| 59.   | Development of stress management lab in India.   | International Journal of Applied Engineering research, vol. 6, pp. 1121-1125, 2011                | <b>Mandeep Singh</b> , Anurag Joshi, Tanushree Sharma                    |
| 60.   | Some aspect of personality management through acoustic meditation (Nada Yoga): An analysis.            | Journal of Engineering and Technology Education, vol. 4, pp. 22-30, 2010                          | <b>Mandeep Singh</b> , Anurag Joshi, Bharat Bhushan Singla, Gurmit Singh |
| 61.   | A novel approach for simulation of   | International Journal of  | <b>Parag Nijhawan</b>  |

| S. No | Title of Paper   | Journal  | Authors   |
|-------|--|--|---|
|       | Transmission line Compensation   | Engineering and Technology, vol. 2, pp. 336 – 342, 2010  |   |
| 62.   | A cost effective drive system for brushless dc motor   | International Journal of Electrical Engineering vol. 3, pp. 211-220, 2010.                           | SSSR Sarathbabu Duvvuri, Vikram Chopra, Durga Prasad, <b>Shakti Singh</b> |
| 63.   | Biometrics and its issues for disable  | SGI Reflections International Journal of Science Technology and Management, vol. 1, pp. 37-41, 2010  | <b>Sunil Singla</b> , A. S. Arora   |
| 64.   | Biometric limitations and solutions  | SGI Reflections International Journal of Science Technology and Management, vol. 2, pp. 1-4, 2011    | <b>Sunil Singla</b>   |
| 65.   | Optimized elevator by using PLC and HMI  | SGI Reflections International Journal of Science Technology and Management, vol. 2, pp. 35-41, 2011  | <b>Sunil Singla</b> , Ajay Kakkar, Piyush Jain                            |
| 66.   | Morphology based approach to recognize number plates in India  | International Journal of Soft Computing and Engineering, vol. 1, pp. 107-112, 2011                   | <b>Mandeep Singh</b> , Phalgun Pandya                                     |
| 67.   | Design of a 9 KW <sub>p</sub> grid connected solar photovoltaic power plant using 100 m <sup>2</sup> available area in Patiala                           | Journal of Engineering Research & Studies, vol. 1, pp. 12-27, 2010                                   | <b>Souvik Ganguli</b> , Sunanda Sinha                                     |
| 68.   | Estimating the solar photovoltaic generation potential and possible plant capacity in Patiala  | International Journal of Applied Engineering Research, Dindigul, vol.1, pp. 253-260, 2010            | <b>Souvik Ganguli</b> , Jasvir Singh                                      |
| 69.   | Assessment of solar photovoltaic generation potential and estimation of possible plant capacity for 100 m <sup>2</sup> available area in Kolkata         | Journal of Engineering Research & Studies, vol.1, pp. 82-92, 2010                                    | <b>Souvik Ganguli</b> , Sunanda Sinha                                     |
| 70.   | Estimation of annual energy generation from a small grid connected solar photovoltaic power plant in Patiala   | Journal of Engineering Research & Studies, vol.2, pp. 43-44, 2011                                    | <b>Souvik Ganguli</b> , Sunanda Sinha                                     |
| 71.   | A new approach to calculate online delta time moments from input-output response of plant  | Journal of Engineering Research & Studies, vol.2, pp. 25-27, 2011.                                   | <b>Souvik Ganguli</b>   |
| 72.   | Design of a 11 KW <sub>p</sub> grid connected solar photovoltaic power plant on 100 m <sup>2</sup> available area in the Birbhum district of West Bengal | Journal of the Institute of Engineering, vol. 8, pp. 105-112, 2011                                   | <b>Souvik Ganguli</b> , Sunanda Sinha                                     |
| 73.   | A novel Matlab/Simulink model of a soft switching converter for brushless dc motor drives  | International Journal of Advanced Engineering Technology, vol. 2, pp. 164-171, 2011                  | <b>Souvik Ganguli</b>   |
| 74.   | Object detection in image using particle swarm optimization  | International Journal of Engineering and Technology, vol. 2, pp. 419-426, 2010                       | <b>Nirbhovjajp Singh</b> , Ankit Sharma                                   |
| 75.   | Object detection in image processing using predator prey optimization  | International Journal of Signal and Image Processing, vol. 2, pp.205-221,2010                        | <b>Nirbhovjajp Singh</b> , Ankit Sharma                                   |
| 76.   | An overview of anaesthesia ventilator  | SGI Reflections International Journal of Science Technology and Management, vol. 2, pp. 10-15, 2011. | <b>Sunil Singla</b>   |
| 77.   | LabVIEW and its features   | SGI Reflections International  | <b>Sunil Singla</b>   |

| S. No | Title of Paper  | Journal  | Authors  |
|-------|---|--|--|
|       |   | Journal of Science Technology and Management, vol. 2, pp. 116-120                    |  |
| 78.   | Application of PI controller based DSTATCOM for improving the power quality in a power system network with induction furnace load | Songklanakarin Journal of Science and Technology, vol.34, pp. 195-201, 2012          | <b>Parag Nijhawan</b> , Ravinder Singh Bhatia, Dinesh Kumar Jain |
| 79.   | Role of dynamic voltage restorer against voltage dip with induction motor as load   | International Journal of Electrical Engineering, vol.4, pp. 617-624, 2011.           | Amandeep Bangar, <b>Parag Nijhawan</b>                           |
| 80.   | Application of dynamic voltage restorer for voltage balancing with ASD load using dqo Transformation                              | International Journal of Engineering and Technology, vol. 4, pp. 889-898, 2011       | Anmol, <b>Parag Nijhawan</b>                                     |
| 81.   | A comparative study of the performance of mitigation methods for power quality problems   | International Journal of Engineering and Technology, vol. 4, pp. 689-695, 2011       | Atul Sood, <b>Shakti Singh</b> , <b>Mandeep Singh</b>            |
| 82.   | Intelligent induction motor drive   | International Journal of Computer Applications, vol.50, pp.7939-1277, 2012           | <b>Ruchika</b> , Rohit   |
| 83.   | P-spice simulation of a resonant converter for switched reluctance motor drive  | International Journal of Advanced Engineering Technology, vol. 2, pp. 316-320, 2011. | <b>Souvik Ganguli</b>  |
| 84.   | Analysis for a c-dump converter for switched reluctance motor drive using P-spice   | International Journal of Advanced Engineering Technology, vol. 2, pp. 331-335, 2011  | <b>Souvik Ganguli</b>  |
| 85.   | P-spice simulated bifiler winding converter for switched reluctance motor drive   | International Journal of Advanced Engineering Technology, vol. 2, pp. 364-368, 2011  | <b>Souvik Ganguli</b>  |
| 86.   | P-spice analysis of a split dc supply converter for switched reluctance motor drives  | International Journal of Advanced Engineering Technology, vol. 2, pp. 372-376, 2011  | <b>Souvik Ganguli</b>  |
| 87.   | Analysis of an asymmetric bridge converter for SRM drives using P-spice simulation  | International Journal of Advanced Engineering Technology, vol. 2, pp. 381-383, 2011  | <b>Souvik Ganguli</b>  |
| 88.   | Analysis of a P-spice simulated two-stage power converter for switched reluctance motor drives                                    | Journal of Engineering Research & Studies, vol. 2, pp. 57-62, 2011                   | <b>Souvik Ganguli</b>  |
| 89.   | Comparison of the various power converter topologies for a three phase switched reluctance motor drive                            | Journal of Engineering Research & Studies, vol. 2, pp. 69-71, 2011                   | <b>Souvik Ganguli</b>  |
| 90.   | Comparative study of different switching circuit topologies for linear switched reluctance motors                                 | Journal of Engineering Research & Studies, vol. 2, pp. 80-83, 2011                   | <b>Souvik Ganguli</b>  |
| 91.   | P-spice analysis of a variable dc-link with buck-boost converter topology for switched reluctance motor drive                     | Journal Of Engineering Research & Studies, vol. 2, pp. 88-92, 2011                   | <b>Souvik Ganguli</b>  |
| 92.   | P-spice analysis of dump converter for switched reluctance motor drives   | Journal Of Engineering Research & Studies, vol. 2, pp. 98-102, 2011.                 | <b>Souvik Ganguli</b>  |

|      |  |  |  |
|------|--|--|--|
| 93.  | Comparison of single-switch per phase converter topologies for switched reluctance motor drives  | Journal of Engineering Research & Studies, vol. 2, pp. 110-112, 2011                             | <b>Souvik Ganguli</b>  |
| 94.  | Multi-objective generation and emission dispatch using NSGA-II                                   | International Journal of Engineering & Technology, vol. 3, 2011.                                 | Javed Dhillon, <b>Sanjay Jain</b>                            |
| 95.  | Unit commitment using particle swarm optimization  | BIOINFO Computational Optimization, vol. 2, pp.09-16, 2012                                       | Vinod Puri, <b>Nitin Narang, Sanjay Jain, Yogesh Chauhan</b> |
| 96.  | Micro-turbine generation using Simulink  | International Journal of Electrical Engineering, vol. 5, pp. 95-110, 2012                        | Syed Abdul Sakur, <b>Sanjay Jain</b>                         |
| 97.  | Voltage regulation optimization of isolated induction generator feeding static and dynamic loads | ELEKTRIKA - UTM Journal of Electrical Engineering, vol. 13, pp. 31-39, 2011                      | <b>Yogesh Chauhan, Sanjay Jain</b> , Bhim Singh              |
| 98.  | PPG profile investigations for different fingers in a subject                                    | International Journal of Computer Science and Communication, vol. 2, pp 377-379, 2011            | <b>Mandeep Singh</b> , Spiti Gupta                           |
| 99.  | Correlation studies of PPG finger pulse profiles for biometric system                            | International Journal of Information Technology and Knowledge Management, vol. 5, pp. 1-3, 2011  | <b>Mandeep Singh</b> , Spiti Gupta                           |
| 100. | Consistency analysis for determination of ayurvedic doshas using prevalent questionnaires        | International Journal of Computer Science and Communication, vol. 2, pp. 403-405, 2011           | <b>Mandeep Singh</b> , Anil Anand                            |
| 101. | Determining trajectory of charged particle in electrostatic scrubber - A simplified approach     | International Journal of Electronics Engineering, vol. 3, pp. 169-171, 2011                      | <b>Mandeep Singh</b> , Kriti Jain                            |
| 102. | Variation of particle collection efficiency of electrostatic scrubber with coulomb number        | International Journal of Electronics Engineering, vol. 3, pp. 177-178, 2011                      | <b>Mandeep Singh</b> , Kriti Jain                            |
| 103. | Effect of collector radius on collection efficiency of electrostatic scrubber                    | International Journal of Electronics Engineering, vol. 3, pp. 195-196, 2011                      | <b>Mandeep Singh</b> , Kriti Jain                            |
| 104. | Speckle noise removal and edge detection using mathematical morphology                           | International Journal of Soft Computing and Engineering, vol. 1, pp. 146-149, 2011.              | <b>MD Singh</b> , Arpit Singhal                              |
| 105. | Classification of Stroke using texture analysis on CT images                                     | International Journal of Soft Computing and Engineering, vol. 2 pp.527-530, 2012                 | Pramod Bhat, <b>MD Singh</b>                                 |
| 106. | A new quantitative metric for liver classification from ultrasound images                        | International Journal of Computer and Electrical Engineering, vol. 4, pp. 606-608, 2012          | <b>Mandeep Singh</b> , S Singh, S Gupta                      |
| 107. | Model predictive control; history and development  | International Journal of Engineering Trends and Technology, vol. 4, pp. 2600- 2602, 2013         | <b>Ruchika</b> , Neha Raghu                                  |
| 108. | Compensator design for taming inverse response   | International Journal of Information Technology and Knowledge Management, vol.6, pp. 15-17, 2012 | <b>Mandeep Singh</b> , Bharti Pant, Ruchika Lamba            |
| 109. | Analysis Van de Vusse reactor using model predictive control                                     | International Journal of Emerging Technology and Advanced Engineering,                           | <b>Ruchika Lamba</b> , Neha Raghu                            |

|      |  |  |  |
|------|--|--|--|
|      |  | vol. 3, pp. 236-240, 2013  |  |
| 110. | Comparison of bacterial foraging optimization (BFO) neural network algorithm using HAAR wavelet transform(HWT) in image compression. | International Journal for Advance Research in Engineering and Technology, vol. 1, pp. 28-33, 2013                  | Mukesh Mittal, <b>Ruchika Lamba</b>                              |
| 111. | Simulation and comparison of control strategies of DVR for compensating voltage sags   | International Journal of Research and Technology, vol. 2, pp. 1993-2000, 2013                                      | Ramanpreet Kaur, <b>Parag Nijhawan</b>                           |
| 112. | Artifact removal from bio-signal using fixed point ICA algorithm from preprocessing in bio-metrci recognition                        | Measurement Science Review, vol.13, pp. 7-11, 2013   | Puneet Mishra, Sunil Singla                                      |
| 113. | Geometric ear recognition system using LabVIEW   | International Journal of Advanced Research in Computer Science and Software Engineering vol.3, pp.1340-1344, 2013  | Sunil Singla, SukhdeepSingh                                      |
| 114. | A review of image based fingerprint authentication algorithms  | International Journal of Advanced Research in Computer Science and Software Engineering vol.6, pp.553-556, 2013    | Sunil Singla   |
| 115. | A review on biometrics and ear recognition techniques  | International Journal of Advanced Research in Computer Science and Software Engineering, vol.3, pp.1624-1630, 2013 | Sunil Singla, SukhdepSingh                                       |
| 116. | Wavelet based flicker analysis and removal system using LabVIEW  | International Journal of Information technology and management research, vol. 4, pp. 135-140, 2012                 | Amrik Singh, Sunil Singla  |
| 117. | A comparative analysis of unimodal and multimodal biometric authentication systems   | Journal of High Performance Communication Systems and Networking, vol. 4, pp. 87-89, 2012                          | Sunil Singla   |
| 118. | Hardware implementation of airway pressure monitoring system   | International Journal of Emerging Trends in Electrical and lectronics, vol. 4, pp.57-60, 2013                      | Sunil Singla   |
| 119. | Multiprocessor based architecture for controlled switching of circuit breaker  | International Journal of Engineering Technology and Advanced Engineering, vol.3, pp.553-559, 2013.                 | Sunil Singla, A Maheshwari                                       |
| 120. | Role of DSTATCOM to improve power quality of distribution network with FOC induction motor drive as a load                           | International Journal of Emerging Trends in Electrical and Electronics, vol. 5, pp. 83-88, 2013                    | Rajan Sharma, <b>Parag Nijhawan</b>                              |
| 121. | Performance analysis of different control methods of z-source inverters feeding induction furnace load                               | International Review of Automatic Control, vol. 7, pp. 166-175, 2014   | <b>Parag Nijhawan</b> , Ravinder Singh Bhatia, Dinesh Kumar Jain |
| 122. | Comparison of SPWM and SVPWM controls for three phase inverter with different loads in distribution Networks                         | International Journal of Engineering Applications, vol. 1, pp. 288-297, 2013                                       | <b>Parag Nijhawan</b> , Ravinder Singh Bhatia, Dinesh Kumar Jain |

|      |  |   |  |
|------|--|---|--|
| 123. | Simulation and analysis of ZSI in UPFC for power flow improvement  | International Journal of Electrical Engineering, vol. 7, pp. 309-314, 2014                          | Sunpreet Kaur Kharoud,<br><b>Parag Nijhawan</b>          |
| 124. | Improved performance of ZSI based UPFC for enhanced power flow in Interconnected system  | IOSR Journal of Electrical and Electronics Engineering, vol. 9, pp. 50-54, 2014                     | Supreet Kaur Kharoud,<br><b>Parag Nijhawan</b>           |
| 125. | Effectiveness of DSTATCOM to compensate the load current harmonics in distribution networks under various operating conditions | International Journal of Scientific Engineering and Technology, vol. 2, pp. 713-718, 2013           | Rajan Sharma, <b>Parag Nijhawan</b>                      |
| 126. | Improvement of power quality of distribution network with DTC drive using UPQC   | International Journal of Emerging Trends in Electrical and Electronic, vol. 5, pp. 1-6, 2013        | Ankush Malhar , <b>Parag Nijhawan</b>                    |
| 127. | Performance comparison of VSI based DSTATCOM and ZSI Based DSTATCOM in a distribution system network                           | IOSR Journal of Electrical and Electronics Engineering, vol. 9, pp. 30-35, 2014                     | Ruban Preet Kaur,<br><b>Parag Nijhawan</b>               |
| 128. | Automatic feature extraction in acceleration plethysmography   | International Journal for Computer Science and Communication, vol. 5, pp. 1-9, 2014                 | <b>Mandeep Singh</b> ,<br>Sakshi Bansal                  |
| 129. | Cognitive assessment techniques  | International Journal of Information Technology and Knowledge Management, vol. 7, pp.108-118, 2014  | <b>Mandeep Singh</b> ,<br>Smiti Sachdeva                 |
| 130. | Cognitive enhancement using odor   | International Journal of Information Technology and Knowledge Management, vol. 7, pp. 119-124, 2014 | <b>Mandeep Singh</b> ,<br>Smiti Sachdeva                 |
| 131. | Changes in asymmetry of brain wave rhythms during different emotions   | International Journal of Information Technology and Knowledge Management, vol. 7, pp.125-128, 2014  | <b>Mandeep Singh</b> ,<br>Smiti Sachdeva                 |
| 132. | A pilot study on cognitive enhancement using odor as intervention  | International Journal of Information Technology and Knowledge Management, vol. 7, pp. 129-132, 2014 | <b>Mandeep Singh</b> ,<br>Smiti Sachdeva                 |
| 133. | Cognitive enhancement techniques   | International Journal of Information Technology and Knowledge Management, vol. 7, pp. 49-61, 2014   | <b>Mandeep Singh</b> ,<br>Mahak Narang                   |
| 134. | Cognitive enhancement using meditation as intervention   | International Journal of Information Technology and Knowledge Management, vol. 7, pp. 62-70, 2014.  | <b>Mandeep Singh</b> ,<br>Mahak Narang                   |
| 135. | Changes in brain wave rhythms during task involving attention and working memory   | International Journal of Information Technology and Knowledge Management, vol. 7, pp. 71-91, 2014   | <b>Mandeep Singh</b> ,<br>Mahak Narang                   |
| 136. | A pilot study on cognitive enhancement using meditation as intervention  | International Journal of Information Technology and Knowledge Management, vol. 7, pp. 98-107, 2014  | <b>Mandeep Singh</b> ,<br>Mahak Narang                   |
| 137. | Emotion recognition along valance axis using naïve Bayes classifier  | International Journal of Information Technology and   | <b>Mandeep Singh</b> ,<br><b>Moonider Singh</b> , Nikhel |

|      |   |  |  |
|------|---|--|--|
|      |   | Management, vol. 7, pp. 51-55, 2013  | Singhal  |
| 138. | Emotional recognition using electroencephalography(EEG): A review   | International Journal of Information Technology and Management, vol. 7, pp. 1-5, 2013  | <b>Mandeep Singh, Moonider Singh,</b> Surbhi Gangwar |
| 139. | Feature extraction from EEG for emotion classification  | International Journal of Information Technology and Management, vol. 7, pp. 6-10, 2013   | <b>Mandeep Singh, Moonider Singh,</b> Surbhi Gangwar |
| 140. | An adaptive speckle suppression filter based on local statistics and edge-map for ultrasound images       | American Scientific Publishers, vol.19, pp.2375-2379, 2013   | <b>Mandeep Singh,</b> S. Singh, S. Gupta             |
| 141. | Detection of exudates and optic disc by mathematical morphology from retinal images                       | International Journal of Research In Electronics and Computer Engineering, vol.2, p.29-32, 2014                                    | Kritika Saluja, <b>Deepti Mittal</b>                 |
| 142. | The deployment of microgrid as an emerging power system in India and its simulation using MATLAB-Simulink | International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, vol. 3, pp. 9163-9170, 2014 | <b>Jitender Kaushal, Prasenjit Basak</b>             |
| 143. | Wind energy stabilization using SVPWM based modulated power filter compensator                            | International Journal of Renewable Energy Research, vol. 1, pp. 433-438, 2014  | Fatehbir Singh, <b>Shakti Singh</b>                  |
| 144. | Sustainable energy plan for a village in Punjab for self energy generation                                | International Journal of Renewable Energy Research, vol. 3, pp. 640-646, 2013  | RahulMishra, <b>Shakti Singh</b>                     |
| 145. | Steganography using various quantization techniques; A review   | International Journal Of Advanced Research In Computer Science And Software Engineering, vol. 3, pp. 26- 30, 2013                  | Tara bansal, <b>Ruchika Lamba</b>                    |
| 146. | Review of data acquisition and difficulties in sensor module of biometric systems                         | Songklanakarin International Journal of Science and Technology, vol. 35, pp. 589-597, 2013   | S. Singla, <b>Sunil Singla</b>                       |
| 147. | Hand geometry based biometrics using LabVIEW  | International Journal of Advanced Research in Computer Science and Software Engineering, vol. 3, pp. 395-398, 2013                 | Agam Gupta, <b>Sunil Singla</b>                      |
| 148. | Real time monitoring of SF6 gas pressure for optimization point on wave switching of SF6 circuit breaker  | International Journal of Engineering Trends and Technology, vol.4,pp. 2909-2913, 2013  | A. Maheshwari, <b>Sunil Singla</b>                   |
| 149. | Optical character recognition based speech synthesis system using LabVIEW                                 | Journal of Applied Research and Technology, vol. 12, pp. 919-926, 2014   | <b>Sunil Singla,</b> R K Yadav                       |
| 150. | Power flow control incorporating TCSC using differential evolution  | International Journal of Engineering Research & Technology, vol. 2, pp. 296-300, 2013  | Abhishek Bhardwaj, <b>Manbir Kaur</b>                |
| 151. | Operating performance of static series compensated three-phase self-excited induction generator           | Electric Power & Energy Systems, vol. 49, pp.137-148, 2013   | <b>Yogesh K. Chauhan, Sanjay Jain,</b> Bhim Singh    |
| 152. | Wavelet and short-time Fourier transform comparison-based analysis of myoelectric signals                 | Journal of Applied Statistics, (accepted 2015)   | Atul Bansal, <b>Ravinder Agarwal,</b> R.K. Sharma    |



|      |   |  |   |
|------|---|--|---|
| 153. | Non Invasive Technique Based Evaluation of Electromyogram Signals Using Statistical Algorithm | International Journal of Advanced Research in Computer Engineering & Technology, vol. 3, pp1987-1991, 2014 | Tanu Sharma, Karan Veer and Ravinder Agarwal        |
| 154. | Determining diabetes using iris recognition system  | International Journal of diabetes in developing countries, (accepted 2015)                                 | Atul Bansal, <b>Ravinder Agarwal</b> , R.K. Sharma  |
| 155. | Processing and Interpretation of Surface Electromyogram Signal to Design Prosthetic Device    | Robotica, vol. 32, pp 1-9, 2014  | Karan Veer, <b>Ravinder Agarwal</b> and Amod Kumar  |
| 156. | Multiple Weighing Based Method for Realizing Flow   | MAPAN - Journal of Metrology Society of India, DOI 10.1007/s12647-014-0122-0, 2015                         | S. K. Jaiswal, S. Yadav and <b>Ravinder Agarwal</b> |

**LM THAPAR SCHOOL OF MANAGEMENT**

| Sr. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors               | Impact Factor and Citation Index |
|---------|---|---|-----------------------------------|----------------------------------|
| 1.      | Volatility Risk Premium in Indian Option Prices.  | Journal of Futures Markets. DOI: 10.1002/fut.21680  | Sonia Garg and Vipul              | 0.772                            |
| 2.      | Volatility Forecasting Performance of Two-Scale Realized Volatility   | Applied Financial Economics, Vol. 24, pp. 1111-1121   | Sonia Garg and Vipul              |                                  |
| 3.      | The determinants of HC disclosures of Indian firms.   | Journal of Intellectual Capital, Vol. 13 Iss: 2 pp. 221-247                                   | Sonia Jindal and Manoj Kumar      |                                  |
| 4       | Your Strengths can be your Weaknesses too!<br>A Critique on SWOT Analysis   | Zenith International Journal Of multidisciplinary Research (Online Issn: 2231-5780) July 2014 | Ghuman, K.; Chaudhary, S.         | 3.567                            |
| 5       | Perceived Effectiveness of ERP in Educational Institutions of North-Western India: An Empirical Study                         | PIMT Journal of Research, Vol.6, No.2, January-June, 2014 pp. 8-14                            | Ghuman, K.; Chaudhary, S.         |                                  |
| 6       | The Art of Leading – Some Random Thoughts   | Gyan Jul-Dec issue of 2010  | Jaiswal, G.                       |                                  |
| 7       | What ails Higher education in India   | University News Jul,2010  | Jaiswal, G.                       |                                  |
| 8       | Monitoring quality goals through Lean Six-Sigma insures competitiveness   | International Journal of Productivity and Performance Management 01/2012; 61(2):194-203       | Gupta V. Acharya P. Patwardhan M, | 1.78                             |
| 9       | A strategic and operational approach to assess the lean performance in radial tyre manufacturing in India: A case based study | International Journal of Productivity and Performance Management 01/2013; 62(6):634-651       | Gupta V. Acharya P. Patwardhan M, | 1.78                             |
| 10      | Data mining-based integrated network traffic visualization framework for threat detection                                     | Neural Computing and Applications 26 (1), 117-130, 2014                                       | Bhardwaj A. K. and Singh M        | 1.79                             |
| 11      | Network Traffic Threat Detection and Reporting System Validation through UML  | Network and Complex Systems 5 (2), 21-29, 2015,   | Bhardwaj A. K. and Singh M.       | 5.54                             |
| 12      | Adaptive Distributed Intrusion Detection using Hybrid K-  | International Journal of Computer Applications 2013,  | Bhardwaj A, Kaur P                | .715                             |

| Sr. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                 | Impact Factor and Citation Index |
|---------|--|--|-------------------------------------|----------------------------------|
|         | means SVM Algorithm  | Volume 74- No.15, July 2013  |                                     |                                  |
| 13      | AN ANALYSIS OF MECHANISMS FOR MAKING IDS FAULT TOLERANT  | International Journal of Computer Applications 2010 (Volume 1/Number 24 (ISBN: 978-93-80746-23-4)) | Kaur P, Rattan D and Bhardwaj A. K. |                                  |
| 14      | Role of AES and DES Based Heartbeat Events for Enhancing Fault Tolerance of Intrusion Detection System | International Journal of Computer Applications 2011 (Volume 1/pages: 15-21                         | Kaur P, Rattan D and Bhardwaj A. K  | .715                             |

MECHANICAL ENGINEERING DEPARTMENT

2010-2011

List of research publications in SCI/Impact Factor journals

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors   | Impact Factor |
|--------|---|--|---|---------------|
| 1.     | Optimisation of neem methyl ester from transesterification process and fuel characterization as a diesel substitute | Biomass and Bioenergy, 35(2011), pp 1138-1144.   | Ragit S.S., Mohapatra, S. K., Kundu, K., Gill, P.,                      | 3.84          |
| 2.     | Experimental investigation of the effect of flow arrangements on the performance of a microchannel heat sink        | Experimental Heat Transfer, 24, 215-233.   | Sehgal, S., Murugesan, K., Mohapatra, S. K.                             | 0.425         |
| 3.     | Multi-Response optimization and Empirical Modeling of Cardiopulmonary Responses during Manual Lifting Tasks         | Human Factors and Ergonomics in Manufacturing, Volume 21, No. 1, 2011, pp. 29-43   | Ajay Batish, Anirban Bhattacharya, Baljeet Singh                        | 0.426         |
| 4.     | Effect of Process Parameters on Microhardness and Microstructure of Heat Affected Zone in Submerged Arc Welding     | Proceedings of the Institution of Mechanical Engineers, PartB, Journal of Engineering Manufacture, Vol. 225, 2011, pp. 771-721, DOI: 10.1243/09544054JEM2143 | Parveen Kumar, Ajay Batish, Anirban Bhattacharya, Ravinder Kumar Duvedi | 0.699         |
| 5.     | Modeling and Analysis of Component Based Software System. A Graph Theoretic Systems Approach                        | Systems Research Forum, 4(2), 151-172, 2010  | Upadhyay, N., Deshpande, B. M., and Agrawal, V.P.                       | 0.443         |
| 6.     | Design for X-abilities of a Mechatronic System- A Concurrent Engineering and Graph Theoretic Approach               | Concurrent Engineering research with applications, Vol. 19, pp. 55-69, 2011  | Kiran C.P., Shibu Clement, Agrawal V.P.                                 | 0.959         |
| 7.     | Coding, evaluation and selection of a mechatronic system  | Expert system with applications, vol. 38, pp. 9704-9712, 2011  | Kiran C.P., Shibu Clement, Agrawal V.P.                                 | 2.908         |
| 8.     | Developing Maintainability Index of a software Component: A Digraph and Matrix Approach                             | ACM SIGSOFT 35(5), pp. 1-11, 2010  | Upadhyay, N., Deshpande, B. M., and Agrawal, V.P.                       | 0.66          |
| 9.     | Towards a Software Component Quality Model,   | Springer (LNCS), pp. 398-412.  | Upadhyay, N., Deshpande, B. M., and Agrawal, V.P.                       | 0.95          |
| 10.    | Concurrent usability evaluation and design of software component: a digraph and matrix approach                     | IEEE/IET Software Research Journal, 5(1), pp. 1-13, 2011 (In Press)  | N. Upadhyay, B. M. Deshpande, V. P. Agrawal                             | 1.1           |
| 11.    | A new methodology for multi-pass single point incremental forming with mixed tool paths                             | CIRP Annals- Manufacturing Technology, Vol. 60, pp. 323-326 doi:10.1016/j.cirp.2011.03.1   | R. Malhotra, A. Bhattacharya, A. Kumar, N.V. Reddy, J. Cao              | 1.603         |

| S. No. | Title of the paper                                     | Name of the Journal with volume, page nos., year                            | Name of the authors  | Impact Factor |
|--------|--|---|--|---------------|
|        |  | 45  |  |               |
| 12.    | Micromechanical modelling of weldments using GTN model | International Journal of Fracture, Vol.167, Number 1, Page 71-82, July 2010 | R. Chhibber,<br>P. Biswas, Navneet Arora,<br>S.R. Gupta,<br>B.K. Dutta | 1.043         |

**List of research publications in Non-SCI/Non-Impact journals**

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                                       |
|--------|--|--|---|
| 1.     | Study of agglomeration in 3.5 MW AFBC using rice husk particles  | IJRET, 2, 120-142 (2011)   | Mohapatra, S. K., Singh, R.I., Gangacharyulu, D.          |
| 2.     | Simulation of centrifugal slurry pump using k-epsilon modeling scheme  | International Journal of Computational Science and Engineering, 1, 1-6 (2011)                        | Mohapatra, S. K., Kumar Satish, Joshi, R.                 |
| 3.     | Biodiesel production from used frying oil and properties of as an alternate fuel   | International Journal of Fluids Engineering, 1, 21-27, (2011)  | Mohapatra, S.K., Ragit, S.C., Kundu, K., Dahake V.        |
| 4.     | Experimental study and numerical simulation on thermal analysis of tool and cutter grinding operation using FEM                            | International Journal of Fluids Engineering, 2, 1-13, (2011)   | Mohapatra, S. K., Dhull, V., Singla, V. K.                |
| 5.     | Performance and emission evaluation of a compression ignition engine fuelled with neem methyl ester and its respective blends              | International Journal of Fluids Engineering, 2, 29-40, (2011)  | Mohapatra, S.K., Ragit, S.C., Kundu, K., Dahake V         |
| 6.     | Computational Investigations of centrifugal slurry pump handling bottom ash  | International Journal of Fluids Engineering, 3, 241-249, (2011)                                      | Saroj Kumar Mohapatra; Jaiinder Preet Singh; Satish Kumar |
| 7.     | Comparative study of engine performance and exhaust characteristics of a single cylinder 4-stroke CI engine operated on esters of hemp oil | Indian Journal of Engineering and Material Science, 18, 1-12, (2011)                                 | Mohapatra, S.K., Ragit, S.C., Kundu, K                    |
| 8.     | Effect of parameters on predicted stresses during single point incremental forming   | International Journal of Applied Engineering Research Vol. 6, No. 4, 2011, pp. 533 - 544             | Anirban Bhattacharya, Ajay Batish                         |
| 9.     | Effect of parameters in Resistance Micro-welding of Stainless Steel cross wire using Fractional Factorial Experimental Design              | International Journal of Manufacturing Research Vol. 6, No. 3, 2011, pp. 290 - 303.                  | Jung-Mo Kim, Jaho Seo, Ajay Batish, Anirban Bhattacharya  |
| 10.    | CEXSC: Concurrent Evaluation of "X-Abilities" of a software component  | International Quality Congress, Baroda, India, Oxford University press, pp. 129-142., 2010           | Upadhyay, N., Deshpande, B. M., and Agrawal, V.P.         |
| 11.    | X-abilities based concurrent design and evaluation of mechatronic system   | Journal of Mechatronics and Intelligent Manufacturing, Vol. 2, pp. 115-127 (Nova Science Pub.), 2011 | C. Phaveendra Kiran, Shibu Clement and V.P. Agrawal       |
| 12.    | 'A group decision making aid for evaluation and optimum selection of Micro-Electro-Mechanical System                                       | Journal of Mechatronics and Intelligent Manufacturing, vol. 1(1/2), pp. 1-21, 2010                   | Prince, A.A. and Agrawal, V.P.                            |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors  |
|--------|---|--|--|
|        | (MEMS) products   |  |  |
| 13.    | Attribute Based Design Specification, Comparison and Selection of Electroplating Waste Treatment System using MADM Approach | Journal of Tribology and surface engineering (Nova Publication, USA) Vol. 1, pp. 263-286, 2010                   | Kumar, A., Clement, S., Agrawal, V.P.                      |
| 14.    | Integrated Decision Approach for COTS Selection   | International journal of Decision Sciences, Risks and Management, 2(3), pp. 165-177, 2010                        | Upadhyay, N., Deshpande, B. M., and Agrawal, V.P.          |
| 15.    | Concurrent Design Graph Theoretic Approach for Component Based Software System  | International Journal of Product Design, 1(1), pp. 13-23, 2010   | Upadhyay, N., Deshpande, B. M., and Agrawal, V.P.          |
| 16.    | Quality modeling and analysis of an electroplating system using graph theory matrix approach.                               | International Journal of Productivity and Quality Management, Interscience Publication, Vol. 8, pp. 85-112, 2011 | Kumar A., Shibu Clement, Agrawal V.P.                      |
| 17.    | A review on the state of the art in wire electric discharge machining (WEDM) process  | International Journal of Mechanical Engineering Research and Development Vol.1,pp. 23-39, 2011.                  | Anish kumar<br>Vinod kumar<br>Jatinder kumar               |
| 18.    | Review of research work in traditional and Non-Traditional Machining of composites  | Journal of information, knowledge and research in mechanical Engineering, Vol.1, pp21-25, Nov, 2010              | Davinder sethi<br>Vinod kumar                              |
| 19.    | Green supply chain management issues: A literature review approach  | Journal of information, knowledge and research in mechanical Engineering, Vol.1, pp12-20, Oct, 2010.             | Sunil luthra<br>Vinod kumar<br>Sanjay kumar<br>Abid Haleem |
| 20.    | Strategic Alignment of Organizational Culture Issues for Stimulating Creativity and Innovation                              | International Journal of Applied Engineering Research, Vol. 6, 471-480, 2011                                     | Gopal Dixit,<br>Tarun Nanda                                |
| 21.    | Strategic Alignment of Organizational Culture and Climate for Stimulating Innovation in SMEs                                | International Journal of Innovation, Management and Technology, Vol. 2, 77-85, 2011                              | Gopal Dixit,<br>Tarun Nanda                                |
| 22.    | Elasto-Plastic Analysis of Corten Steel using Finite Element Methods.   | International Journal of Applied Engineering Research, Vol. 6(4), 2011. pp. 481-497.                             | J.S. Saini,<br>Yatheshth Anand                             |
| 23.    | Failure mode of steel tension members due to change in connection eccentricity and connection length.                       | Journal of Institution of engineers (Civil Division), Vol 91, Nov., 2010. pp. 8-14.                              | J. S. Saini, D. Kumar,<br>P. Katyal                        |
| 24.    | Experimental Study and Numerical Simulation on Thermal and Structural Analysis of Tool                                      | International Journal of Materials Sciences,6, 169-184,2011.   | S. K. Mohopatra,<br>Vinod Dhull,<br>Satish Kumar           |
| 25.    | Flow Structure and Heat Transfer Analysis in a Laminar Channel Flow with a Built-in Triangular Prism                        | Journal of Fluids Engineering,2,51-63,2011   | Munis Gupta, Satish Kumar                                  |
| 26.    | Modeling and Evaluation of Erosion  | International Journal of Materials   | Lalit Upadhayay, Satish                                    |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                                |
|--------|---|--|--|
|        | Wear Suspension System  | Physics,2,21-31,2011   | Kumar  |
| 27.    | Evolution of Erosion Wear of Centrifugal Pump using CFD   | International Journal of Computational Physical Sciences,2,1-8,2011                        | Manikanwar Singh, Satish Kumar                     |
| 28.    | Computational Study of Solid-Liquid Suspension in Stirred Tanks: A Review of Recent Progress  | International Review of Applied Engineering Research,1,27-33,2011                          | Lalit Upadhayay, Jaiinderpreet Singh, Satish Kumar |
| 29.    | <u>Sliding Wear Performance of Detonation Spray Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> and Hydroxyapatite Hybrid Coatings</u> | International Journal of Mechanical Engineering Research, Volume 1,Number 1, 2011, 117-127 | Harpreet Singh, Rahul Chhibber, Sanjeev Bhandari   |

#### Publication of papers in conference proceedings and other publications

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors                               |
|--------|--|---|---|
| 1.     | A comparative analysis on the performance and emission characteristics using raw hemp oil and filtered neem oil in Diesel engine | FTME-2010, GNE Ludhiana, 1, 70-74, 2010   | Mohapatra, S.K., Ragit, S.C., Kundu, K., Dahake V |
| 2.     | Experimental investigations of performance and emission of hemp biodiesel and its blend with diesel                              | FTIME-2010, GITM Yamunanagar, 1, 235-241, 2010  | Mohapatra, S.K., Ragit, S.C., Kundu, K., Dahake V |
| 3.     | Optimisation of Mahua biodiesel by different production technique  | Advances in Chemical Engineering, Thapar Institute of Engineering & Technology University, 1, 166-171, 2011   | Mohapatra, S.K., Ragit, S.C., Kundu, K., Dahake V |
| 4.     | Performance and emission characteristics of a Diesel engine fuelled with hemp oil and 20% blends of hemp oil with diesel         | Emerging Trends in Mechanical Engineering, G. H. Patel College of Engineering and Technology, Gujarat, 1, 25-31, 2011                                 | Mohapatra, S.K., Ragit, S.C., Kundu, K., Dahake V |
| 5.     | Combustion of agri-waste in fluidized bed boilers  | ICTME-2011, TU, 1, 42-51, 2011  | S. K. Mohapatra                                   |
| 6.     | Various tool designs in friction stir welding  | International Conference on Emerging Trends in Mechanical Engineering 2011, Thapar Institute of Engineering & Technology University, Patiala, 382-388 | Pritika Pathak, Rahul Chhibber, S.K. Mohapatra    |
| 7.     | Experimental study and numerical simulation on thermal analysis of tool and cutter grinding operation using FEM                  | ICTME-2011, TU, 1, 572-581, 2011  | Mohapatra S.K., Dhull, V., Singla V.K.            |
| 8.     | Biodiesel production from used frying oil and properties as an alternate fuel  | ICTME-2011, TU, 1, 768-772, 2011  | Mohapatra, S.K., Ragit, S.C., Kundu, K., Dahake V |
| 9.     | Performance and emission evaluation of a CI engine fuelled with neem methyl ester and its blends                                 | ICTME-2011, TU, 1, 773-781, 2011  | Mohapatra, S.K., Ragit, S.C., Kundu               |
| 10.    | Effect of parameters on predicted stresses during Single Point   | International Conference on Emerging Trends in Mechanical   | Anirban Bhattacharya, Ajay Batish                 |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors                                    |
|--------|--|---|--|
|        | Incremental Forming  | Engineering (ICETME-2011), Mechanical Engineering Department, Thapar Institute of Engineering & Technology University Patiala - 147004, Punjab<br>24 - 26 February, 2011<br>pp. 448 - 456   |  |
| 11.    | Multi-response optimization using Grey analysis for nozzle effectiveness in a cylindrical grinding process | International Conference on Emerging Trends in Mechanical Engineering (ICETME-2011), Mechanical Engineering Department, Thapar Institute of Engineering & Technology University Patiala - 147004, Punjab<br>24 - 26 February, 2011<br>pp. 563 - 571 | Anirban Bhattacharya,<br>Ajay Batish,<br>Mandeep Singh |
| 12.    | CFMEA: Concurrent Failure Mode and Effect Analysis   | Proceedings of 2nd International Conference on Reliability, Safety, and Hazard-Risk-Based Technologies and Physics of Failure Methods, December 14-16, 2010, Mumbai pp. 399-405   | Upadhyay, N., Deshpande, B. M., and Agrawal, V.P.      |
| 13.    | A decision making method for selection of finished process for a cylindrical surface                       | Proceedings of 2010 IEEE International conference on Industrial Engineering and Engineering Management (IEEM 2010), Taipa, Macao SAR, P.R. China, 7th-10th Dec., pp. 38-42.   | Varinder Singh, V.P.<br>Agrawal, and P. Deb            |
| 14.    | An improved graph theoretic model for integrated manufacturing system                                      | Proceedings of the Golden Jubilee National Conference on "Recent Advances in Manufacturing( RAM-2010), 19-21 July 2010, SVNIT, Surat, Gujrat, pp.151-156  | Varinder Singh, V.P.<br>Agrawal, and P. Deb            |
| 15.    | Fuzzy scale based TOPSIS-MADM method for selection of finishing processes                                  | Proceedings of the Golden Jubilee National conference on "Recent Advances in Manufacturing(RAM-2010), 19-21 July 2010, SVNIT, Surat, Gujrat, pp.151-156   | Varinder Singh, V.P.<br>Agrawal, and P. Deb            |
| 16.    | Optimization of Regenerative gas turbine cycle using adaptive neuro fuzzy inference system                 | International Conference on Emerging Trends in Mechanical Engineering (ICETME-2011), Mechanical Engineering Department, Thapar Institute of Engineering & Technology University Patiala - 147004, Punjab<br>24 - 26 February, 2011                  | Sumit Sharma   |
| 17.    | Study of machining characteristics of different materials using abrasive flow machining process: a review  | National conference on Advances in manufacturing engineering, UIET, Chandigarh, , 20th - 21st May 2011, pp.230-235  | Harmesh kansal<br>Sushil mittal<br>Vinod kumar         |
| 18.    | A study on applications of non-traditional machining processes-a review                                    | National conference on Advances in manufacturing engineering, UIET, Chandigarh, , 20th - 21st May 2011, pp  | C.S.Kalra<br>Vinod kumar                               |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.  | Name of the authors                                      |
|--------|--|--|--|
|        |  | 236-240  |  |
| 19.    | A review on effect of WEDM performance, recast layer and wire accuracy                             | National conference on Advances in manufacturing engineering, UIET, Chandigarh, , 20th - 21st May 2011, pp 408-414   | Anish kumar<br>Vinod kumar<br>Jatinder kumar             |
| 20.    | Effect of Machining Parameters on MRR during CNC WEDM of Pure Titanium                             | 5th International Conference on Advances in Mechanical Engineering (ICAME-2011),S.V. National Institute of Technology, Surat Gujarat, India,pp 541-545, June 6-8, 2011.                        | Anish kumar<br>Vinod kumar<br>Jatinder kumar             |
| 21.    | Ultrasonic investigations of embedded and submerged components                                     | International Conference on Theoretical and applied computational and experimental Mechanics ICTACEM 2010, IIT Khargarpur, December 26th-27th, 2010  | Sandeep Sharma<br>Shruti Sharma<br>Dr. Abhijit Mukherjee |
| 22.    | Health Monitoring of Post tensioning tendons using ultrasonic guided waves                         | First Middle East Conference on Smart Monitoring and Assessment & Rehabilitation of Civil Structures (SMAR) 2011, American University in Dubai, (AUD) & IISHM, February 9th-11th 2011          | Sandeep Sharma<br>Shruti Sharma                          |
| 23.    | Mechanisms for producing ultra-fine/ nano grained microstructure for austenitic stainless steels   | International Conference on Emerging Trends in Mechanical Engineering (ICETME 2011), Mechanical Engineering Department, Thapar Institute of Engineering & Technology University, Patiala, 2011 | Pankaj Sharma; Mrudul Rai; Tarun Nanda                   |
| 24.    | An Analytical Finite Element Technique for Predicting Thrust Force and Torque in Drilling Process. | International Conference on Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology University, Patiala, Punjab, India. Feb., 24-26th, 2011, pp. 199-210       | J. S. Saini, Ashish Mittal.                              |
| 25.    | Design of ash transportation system  | International Conference on Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology University, Patiala (Punjab), India, 24-26, Feb., 2011,pg .94-96           | Satish Kumar   |
| 26.    | Design analysis of salisbury and banjo type axle housings  | International Conference on Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology University, Patiala (Punjab), India, 24-26, Feb., 2011,pg .124-131         | Tushar Chugh, Satish Kumar                               |
| 27.    | Pressure drop evolution of pipe bend using CFD   | International Conference on Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology  | Manu Aggarwal,Prateek Srivastava, Satish Kumar           |



| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors   |
|--------|--|---|---|
|        |  | University, Patiala (Punjab), India, 24-26, Feb., 2011,pg .690-694  |   |
| 28.    | Design of tussat thermal control system  | International Conference on Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology University, Patiala (Punjab), India, 24-26, Feb., 2011,pg .782-789.   | Sohil Batra, Satish Kumar   |
| 29.    | Energy saving in centrifugal pump with adjustable speed drive  | International Conference on Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology University, Patiala (Punjab), India, 24-26, Feb., 2011,pg .907-910.   | Prateek Srivastava,Sasank Shekhar; Satish Kumar                       |
| 30.    | Automation technology in energy management   | International Conference on Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology University, Patiala (Punjab), India, 24-26, Feb., 2011,pg .911-913.   | Harish Giri,Rakesh Joshi, Satish Kumar                                |
| 31.    | Dimensionless characteristics of radial flow centrifugal pump using variable frequency drive             | Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology University, Patiala (Punjab), India, 24-26, Feb., 2011,pg .919-923  | Aseem Mishra,Rakesh Kumar; Satish Kumar                               |
| 32.    | Formability and Surface Finish Studies in Single Point Incremental Forming                               | Global Trends and Challenges in Design and Manufacturing, 3 <sup>rd</sup> International and 24 <sup>th</sup> All India Manufacturing Technology Design and Research Conference, Andhra University College of Engineering (A), Andhra University, Visakhapatnam - 530003, AP, India December 13-15, 2010. Volume 1, pp. 133 - 137. | Samarjit Singh, A Bhattacharya, NV Reddy                              |
| 33.    | Grain Orientation during Single Point Incremental Forming  | 6 <sup>th</sup> International Conference on Micro Manufacturing, Tokyo Denki University, Tokyo, Japan March 7 - 10, 2011 pp. 35 - 39  | Anirban Bhattacharya, N V Reddy                                       |
| 34.    | Formability and surface finish studies in Single Point Incremental Forming                               | Proceedings of the 2011 International Manufacturing Science and Engineering Conference, Corvallis, Oregon, USA June 13 - 17, 2011, Paper code: MSEC2011-50284, pp. 1 - 7  | A Bhattacharya, Samarjeet Singh, K Maneesh, N Venkata Reddy, Jian Cao |
| 35.    | A Study of Ductile and Brittle Fracture Behaviour of Bimetallic Welds at Cryogenic Temperatures for RPVs | International Conference on science and engineering, Rohtak, 2011   | Amit Sarda, Rahul Chhibber, B.K. Dutta                                |
| 36.    | Underwater welding   | International conference on emerging trends in mechanical engineering,  | Aashish Kaushal, Rahul Chhibber                                       |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.  | Name of the authors  |
|--------|--|--|--|
|        |  | 2011, Thapar Institute of Engineering & Technology University, Patiala, PAGE 72  |  |
| 37.    | Analysis of Creep in Functionally Graded Cylinder  | International Conference on Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology University, Patiala, Punjab, India, Feb 24-26, 2011, Page 301-306.         | Kishore Khanna, Harmandeep                                   |
| 38.    | Creep deformation and Stress Analysis in Rotating Disc of Composite Material   | International Conference on Emerging Trends in Mechanical Engineering, Thapar Institute of Engineering & Technology University, Patiala, Punjab, India, Feb 24-26, 2011, Page 306-312.         | Kishore Khanna, Devender Kumar, Barinder Singh               |
| 39.    | Design and Analysis of Air flow Control Mechanism of Automotive HVAC module using CAE tools  | 'International Engg. Symposium' 2011, Kumamoto University, Kumamoto, Japan   | Daljeet Singh  |
| 40.    | Epoxy Layered Silicates Nanocomposites as Matrix In Fibre-reinforced Composites.   | Advances in polymer science and rubber technology at IIT,KHARAGPUR. March 3-5,2011; Page 52  | Sumit Mahajan, Bikramjit Sharma, Rahul Chibber, Rajeev Mehta |
| 41.    | An experimental study on effects of thermal cycling on cast aluminium composites reinforced with silicon carbide and fly ash particles | International Conference on Emerging Trends in Mechanical Engineering at THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY UNIVERSITY, PATIALA. Feb 24-26, 2011;Page 90                             | Sanjeev Kumar, Bikramjit Sharma, Dr.Rahul Chhibber           |
| 42.    | Minimum Transport Boudaries for Dense Phase Pneumatic Conveying of Powder  | Bulk Solids India, Mumbai, April 2011- (organized by foreign agencies-Vogel and Numberg)   | S.S. Mallick, P.W. Wypych, R. Pan                            |
| 43.    | Design of Energy Efficient Pneumatic Transport System using Fluidised Dense-Phase Mode   | 16th ISME Conference on "Mechanical Engineering for SUSTAINABLE DEVELOPMENT", IIT Delhi, December 2010   | S. S. Mallick  |
| 44.    | Analyzing signal to noise ratio optimization of physiological stress of Indian male workers in summer                                  | Institute of Ergonomics, Stoke Rochford, Lincolnshire,UK, pp 270-277, April 11-13, 2011  | Ajay Batish, R.P. Singh; T P Singh                           |
| 45.    | Electric discharge machining of Al-10%Al <sub>2</sub> O <sub>3</sub> p as-cast composite   | 2nd International Conference on Production, Vol 1, 697-701, Dr. BR Ambedkar National Institute of Technology, Jalandhar, 2010  | Ajay Batish, Sarabjeet Singh; Sanjeev Kumar                  |
| 46.    | Electric discharge machining of aluminum based metal matrix composite  | Global trends and Challenges in Design and manufacturing 3rd International and 24th All India manufacturing Technology, Design and Research (AIMTDR), Vishakhapatnam Vol 2, pp 1211-1216, 2010 | Ajay Batish, Sarabjeet Singh; Sanjeev Kumar                  |

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List of research publications in SCI/Impact Factor journals

| S No | Title of the paper  | Name of the Journal with volume, page nos., year, and ISSN Number   | Name of the authors   | Impact Factor |
|------|---|---|---|---------------|
| 1.   | Brown hemp methyl ester: transesterification process and evaluation of fuel properties  | Biomass and Bioenergy, 41 (June 2012), Page 14-20<br>DOI:http://dx.doi.org/10.1016/j.biombioe.2011.12.026 ISSN 0961-9534  | Ragit, S. S,<br>Mohapatra, S. K.,<br>Gill, P.,<br>Kundu, K.                 | 3.67          |
| 2.   | Optimization of Powder Mixed Electric Discharge Machining using Dummy Treated Experimental Design with Analytic Hierarchy Process       | Proceedings of the Institution of Mechanical Engineers, PartB, Journal of Engineering Manufacture, Vol. 226, 2012, pages 103-116, ISSN 0954-4054                      | Anirban Bhattacharya,<br>Ajay Batish,<br>Gurpreet Singh                     | 0.725         |
| 3.   | Study of Material Transfer Mechanism in Die Steels using Powder Mixed EDM   | Materials and Manufacturing Processes (Taylor and Francis), Vol. 27, pp. 449-456, 2012, ISSN 1042-6914 (Print) 1532-2475 (Online)                                     | Ajay Batish, Anirban Bhattacharya, V K Singla, Gurmail Singh                | 1.058         |
| 4.   | An Experimental Study to Evaluate the Effect of Ambient Temperature during Manual Lifting and Design of Optimal Task Parameters         | Human Factors and Ergonomics in Manufacturing and Service Industries, Available online since Oct 2011,<br>DOI: 10.1002/hfm.20353,<br>ISSN: 1520-6564                  | Ravindra Pratap Singh,<br>Ajay Batish,<br>T. P. Singh, Anirban Bhattacharya | 0.612         |
| 5.   | Surface Modification of High Carbon High Chromium, EN31 and Hot Die Steel using powder mixed EDM process                                | Materials Science Forum, (Special Issue on: Rapid Casting Solutions) of Trans Tech Pub, Switzerland, Volume 701, pp. 43-59, 2012, ISSN: 0255-5476                     | Anirban Bhattacharya,<br>Ajay Batish,<br>Gurpreet Singh                     | 0.399         |
| 6.   | Mechanism of material deposition from powder, electrode and dielectric for surface modification of H11and H13 die steels in EDM process | Materials Science Forum, (Special Issue on: Rapid Casting Solutions) of Trans Tech Publication, Switzerland, Volume 701, pp. 61-75, 2012, ISSN: 0255-5476             | Ajay Batish,<br>Anirban Bhattacharya  | 0.399         |
| 7.   | Formability and Surface Finish Studies in Single Point Incremental Forming  | Journal of Manufacturing Science and Engineering, Transactions of ASME, Volume 133, pages: 061020-1 to 061020-8, December 2011 ISSN: 1087-1357                        | A Bhattacharya,<br>K Maneesh,<br>N Venkata Reddy,<br>J Cao                  | 0.6           |
| 8.   | Optimal parameter settings for rough and finish machining of die steels in powder mixed EDM   | International Journal of Advanced Manufacturing Technology (Springerlink), Vol. 61, No. 5-8, page 537-548, July 2012, ISSN: 0268-3768 (print), ISSN:1433-3015(online) | Anirban Bhattacharya,<br>Ajay Batish,<br>Gurmail Singh,<br>V K Singla       | 1.103         |
| 9.   | Effect of process variables on microhardness, grain size and strain during machining of various die steels with PMEDM using             | Proceedings of the Institution of Mechanical Engineers, Part B, Journal of Engineering Manufacture, Vol. 226, No. 7, pp. 1192-1204, ISSN 0954-4054                    | Anirban Bhattacharya,<br>Ajay Batish  | 0.725         |

| S No | Title of the paper  | Name of the Journal with volume, page nos., year, and ISSN Number   | Name of the authors  | Impact Factor |
|------|---|---|--|---------------|
|      | dummy treated experimental design   |   |  |               |
| 10.  | A new optimal design and analysis method based on MADM for MEMS product development | Int. J. of Advanced manufacturing Technology, Published Online Feb 2012, pp 1-11  | Amalin Prince, Iden Jose, and V P Agrawal  | 1.103         |
| 11.  | Bunching characteristics of silicon nanowire arrays.                                | Journal of Applied Physics. Publisher: American Institute of Physics, ISSN:0021-8979 (print), 1089-7550 (online) DOI:http://dx.doi.org/10.1063/1.3688025, Volume 111/Issue 4/ ARTICLES/ Nanoscale Science and Design. 044328 (2012) | Mohammadreza Khorasaninejad, Navid Abedzadeh, Ajayinder Singh Jawanda, Nixon O, M. P. Anantram, and Simarjeet Singh Saini. | 2.169         |
| 12.  | On Improving Scale-Up Procedures for Dense-Phase Pneumatic Conveying of Powders     | Particulate Science and Technology: An International Journal, Vol 29, page 409-427, 2012  | S.S.Mallick;P.W.Wypych   | 0.545         |
| 13.  | Micromechanical modelling of reactor pressure vessel steel                          | Journal of Materials & Design, Elsevier, Vol 36, April 2012, Pages 258-274  | R. Chhibber, H. Singh, N. Arora, B.K. Dutta  | 2.2           |

#### List of research publications in Non-SCI/Non-Impact journals

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                                      |
|--------|---|--|--|
| 1.     | Computational studies the effect of flow arrangements on the performance of a microchannel heat sink  | International Journal Advances in Thermal Engineering, 8, pp-354-363, 2011   | Sehgal, S., Mugesan, K. Mohapatra, S.K.                  |
| 2.     | Performance and evaluation of a diesel engine fuelled with filtered pongamia oil and its standardization characteristics                              | International Journal of Science, Technology, and Management, 2, pp-65-74  | Prasad, S., Mohapatra, S.K., Sharma J.K., and Bali, P.L. |
| 3.     | FE simulation and experimental validation of powder mixed EDM process for estimating the temperature distribution and volume removed in single crater | International Journal of Modeling, Simulation, and Scientific Computing, Vol. 3; Issue 2, June 2012, DOI No: 10.1142/S1793962312500067 | Anirban Bhattacharya, Ajay Batish, Kulwinder Singh       |
| 4.     | Experimental Investigation for Multi-Response Optimization of Bead Geometry in Submerged Arc Welding using Grey Analysis                              | Journal of the Institution of Engineers (India), Series C; Published by Springer, Volume 93, Issue 2, 2012, pp. 123-132                | Anirban Bhattacharya, Ajay Batish, Parveen Kumar         |
| 5.     | Electric discharge machining of titanium and its alloys: A review   | International Journal of Machining and Machinability of Materials 11, No. 1, 84-111, 2012  | Rupinder Singh; Sanjeev Kumar; T P Singh; Ajay Batish    |
| 6.     | Ultrasonic machining of titanium and its alloys: A state of art review and future prospective   | International Journal of Machining and Machinability of Materials 10, No. 4, 326-355, 2011   | Gaurav Dhuria; Rupinder Singh; Ajay Batish               |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors  |
|--------|--|--|--|
| 7.     | Quality, Modeling and Analysis of a mechatronic system.  | Int. Journal of Industrial System, Interscience, Vol 12, pp 1-28, 2012   | Kiran C. P., Shibu Clement, and V P Agrawal                                    |
| 8.     | concurrent design, modeling, and analysis of micro electro mechanical products-Design for X-abilities,   | Micro-Nano systems, Vol 4, issue 1, pp 56-74, 2012   | Amalin Prince, Iden Jose, and V P Aggarawal                                    |
| 9.     | Numerical Verification of CNC Machine Simulations  | Computer-Aided Design and Applications, Vol. 8, No. 4, Pages 507-518, 2011. DOI:10.3722/cadaps.2011.507-518  | Gilad Israeli, Stephen Mann, Sanjeev Bedi, Ajayinder Singh Jawanda             |
| 10.    | Numerical Study of Pressure and Velocity Distribution Analysis of Centrifugal Pump   | International Journal of Thermal Technologies,1,117-121(2011)  | Satish Kumar, Ayush Kumar, Munish Gupta  |
| 11.    | Investigation of fuzzy logic approach for the modeling and optimization of process parameters in advanced machining processes  | International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences, Vol.5, Issue 1, pp. 78-83,2012                  | Rajpal Vinod Kumar   |
| 12.    | Study on the applications of taguchi method for the optimization of surface finish and hole diameter accuracy in traditional and non-traditional manufacturing processes | International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences, Vol.5, Issue 1, pp. 134-139,2012                | Kanwaljeet Singh Vinod Kumar   |
| 13.    | Prediction of Surface Roughness in Wire Electric Discharge Machining (WEDM) Process based on Response Surface Methodology  | International Journal of Engineering and Technology Volume 2 No. 4, 2012, pp 708-719   | Ansih kumar Vinod kumar Jatinder kumar   |
| 14.    | Layered Silicates in fiber reinforced composites   | Research Bulletin of Australian institute of High Energetic Materials, 1, 2011, 106-118  | Bikramjit Sharma, Rajeev Mehta, Rahul Chhibber                                 |
| 15.    | Glass Fiber Reinforced Polymer-Clay Nanocomposites: Processing, Structure and Hygrothermal Effects on Mechanical Properties  | Procedia Chemistry, 4, 2012, 39-46   | Bikramjit Sharma, Sumit mahajan; Rahul Chhibber; Rajeev Mehta;                 |
| 16.    | Influence of Tyre's Dimensional Characteristics on Tyre-Pavement Noise Emission"   | Physical Review and Research International, Vol 1 No 4, pp. 124-137  | A. Kumar, A. Tondon, S. Paul, A. Singla, S. Kumar, P. Vijay and U. D. Bhangale |
| 17.    | Effect of Electrode Coatings on Diffusible Hydrogen Content, Hardness and Microstructures of the Ferritic Heat Affected Zones in Bimetallic Welds                        | Advanced Materials Research, Trans Tech Publications, Switzerland, Vols 383 - 390, pp 4697-4701, 2012<br>DOI:10.4028/www.scientific.net/AMR.383-390.4697 | Deepak Bhandari, Rahul Chhibber, Navneet Arora                                 |
| 18.    | Surface Modification of High Carbon High Chromium, EN31 and Hot Die Steel using powder mixed EDM process   | Materials Science Forum, Trans Tech Publication, Switzerland, Volume 701, pp. 43-59, 2012, ISSN: 0255-5476   | Anirban Bhattacharya, Ajay Batish, Gurpreet Singh                              |
| 19.    | Mechanism of material deposition from powder, electrode and  | Materials Science Forum, Trans Tech Publication, Switzerland,  | Ajay Batish, Anirban Bhattacharya  |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                            |
|--------|--|---|--|
|        | dielectric for surface modification of H11 and H13 die steels in EDM process           | Volume 701, pp. 61-75, 2012, ISSN: 0255-5476  |  |
| 20.    | Multi-response optimization of process parameters in cold chamber pressure die casting | Journal of the Institution of Engineers (India), Production Engineering, Vol. 92, September 2011, page: 19-24 | Lalit Kumar, Ajay Batish, Anirban Bhattacharya |

#### Publication of papers in conference proceedings and other publications

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.  | Name of the authors                                    |
|--------|--|--|--|
| 1.     | Hands-on Training and International Experience in Engineering Education  | 2 <sup>nd</sup> Annual CEEA Conference June 6-8, 2011 by Canadian Engineering Education Association (CEEA) at Memorial University St. John's, Newfoundland, CANADA.              | Sanjeev Bedi, Ajayinder Singh Jawanda, Ajay Batish     |
| 2.     | Prediction of Tool and Nozzle Flow Behavior in Ultrasonic Machining Process  | International Conference on Mechanical and Industrial Engineering (ICMIE 2011), World Academy of Science, Engineering and Technology, Singapore, 81, 2011, pp.1224-1229.         | Vinod Kumar Jatinder Kumar                             |
| 3.     | Vibration Control of a Cart-Flexible Pole System using a ZVD Shaper  | Proceedings of 26 <sup>th</sup> International Conference on CAD/CAM, Robotics and Factories of Future (CARs&FOF-2011) pp 777-788, Kuala Lumpur, Malaysia                         | Ashish Singla  |
| 4.     | Performance Indices for Serial Robotic Manipulators  | Proceedings of 26 <sup>th</sup> International Conference on CAD/CAM, Robotics and Factories of Future (CARs&FOF-2011), pp 747-754, Kuala Lumpur, Malaysia                        | Ekta Singla, Ashish Singla                             |
| 5.     | Automated Static Force Analysis for Redundant Manipulators   | Indo-Russian Seminar on Computational Intelligence and Modern Heuristics in Automation and Robotics, 10-12 September, Novosibirsk, Russia  | Ekta Singla, Ashish Singla, and Bhaskar Dasgupta       |
| 6.     | Discovering hidden structural degradations   | International Symposium on Engineering under uncertainty: Safety assessment and management TR004 -- 2012 BEC, Shibpur, WB BEC, Shibpur, WB                                       | Sandeep Sharma Dr Shruti Sharma; Dr. Abhijit Mukherjee |
| 7.     | Guided wave approach for damage monitoring in submerged structures   | Structural Mechanics in Reactor Technology (SMiRT) - 698, IHC New Delhi International Association for Structural Mechanics in Reactor Technology-IASMiRT, pp. 8-10 November 2011 | Sandeep Sharma Dr. Abhijit Mukherjee                   |
| 8.     | Twist in Single Point Incremental Forming  | Proceedings of the 2012 International Manufacturing Science and Engineering Conference, Notre Dame, Indiana, USA, June 4-8, 2012, Paper code: MSEC2012-7402, pp. 1-5             | J Asghar, Shubin E, A Bhattacharya, NV Reddy           |
| 9.     | Evaluation of process parameters and their effect mechanical properties of friction stir welded aluminium butt joint | ICMIE, GOA, 8-12, April (2012)   | Pathak, P., Mohapatra, S.K., Sinha, G.P.               |
| 10.    | Optimisation of Biodiesel Process and Fuel Properties:   | (ICAME-2012), Amrutavahini College of Engineering, Sangamner, Maharashtra, March   | Ragit, S., Mohapatra, S. K., Kundu, K.                 |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.  | Name of the authors   |
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|        | A Review   | 12-14, 2012, pp 194  |   |
| 11.    | Design of centrifugal pump using computational fluid dynamics  | Proceedings of National Conference on Emerging Trends in Energy engineering (ETEE-2012), March 2012, DIT Dehradun, pp 187-190.   | Kumar S., Mohapatra, S. K.                                  |
| 12.    | Experimental and CFD analysis of solid suspension in a slurry pot tester   | Proceedings of National Conference on Emerging Trends in Mechanical Engineering (ETME-2012), ITM University, Gurgaon, 357-363  | Kumar Lalit, Kumar, S., Mohapatra, S. K.                    |
| 13.    | Investigating pneumatic conveying characteristics and minimum transport velocity for fluidised dense-phase transport of fine powders                     | Technological Advancements in Chemical and Environmental Engineering, BITS PILANI, March 2012, Page 55   | S.S.Mallick;A.Bansal; G.Setia                               |
| 14.    | Designing, Fabrication and Testing of Impact Attenuator for Formula SAE Car  | Recent Innovations In Engineering, Galaxy Global Group of Institutions, Ambala, 24 <sup>th</sup> - 25 <sup>th</sup> March, 2012, Pg.30   | Devender Kumar, Gagandeep Singh; Naman Khanna; Sachin Kumar |
| 15.    | Thermal conductivity evaluation for alumina based nanofluids   | Proceedings of National Conference on Technological advancement in chemical and Environmental Engineering (TACEE-2012)", CHED, BITS, Pilani, p-189, March 2012.                              | Kundan Lal S.S. Mallick,                                    |
| 16.    | An evaluation of heat transfer property of Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O, ethylene glycol (EG) based nanofluid (Thermal Conductivity) | Proceedings of 3 <sup>rd</sup> National Conference on Recent Innovation in Engineering and Technology (RIET)", Glaxay Global Group of Institutions, Shahabad, Ambala, HR., p-7, March 2012   | Kundan Lal & S.S. Mallick                                   |
| 17.    | Thermal performance review of a low flux solar collector using nanofluid   | Proceedings of 3 <sup>rd</sup> National Conference on Recent Innovation in Engineering and Technology (RIET)", Glaxay Global Group of Institutions, Shahabad, Ambala, HR., p-12, March 2012. | Vivek Verma, Kundan lal & S.S. Mallick                      |
| 18.    | An evaluation of parameters effecting the viscous behavior of Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O based nanofluid                           | Proceedings of 3 <sup>rd</sup> National Conference on Recent Innovation in Engineering and Technology (RIET)", Glaxay Global Group of Institutions, Shahabad, Ambala, HR., p-9, March 2012   | Jaskaran Singh, Kundan lal & S.S. Mallick                   |
| 19.    | Performance evaluation of nanofluid based solar collectors   | Proceedings of National Conference on Emerging Trends in Mechanical Engineering, ITM University, Gurgaon, HR., p- 519, June 2012   | Parshant Sharma & Kundan Lal                                |
| 20.    | A review on viscous behavior of Al <sub>2</sub> O <sub>3</sub> and CuO based nanofluid   | Proceedings of National Conference on Emerging Trends in Mechanical Engineering, ITM University, Gurgaon, HR., p- 414, June 2012   | Vishal Bhalla & Kundan Lal,                                 |

## List of research publications in SCI/Impact Factor journals

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors   | Impact Factor |
|--------|---|---|---|---------------|
| 1.     | Effect of channel and plenum aspect ratios on the performance of microchannel heat sink under   | Journal of Mechanical Science and Technology, Springer, Vol.26, No. 9, pp. 2985-2994, 2012  | Sehgal, S. Murugesan, K, Mohapatra, S.K                         | 0.448         |
| 2.     | Biomass-based gasifiers for internal combustion (IC) engines – A review   | Sadhana, Springer, Vol. 38, Part 3, June 2013, pp 461-476   | Malik, A. and Mohapatra, S. K.                                  | 0.393         |
| 3      | Force Control in parallel manipulator through virtual foundations   | Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, Vol. 226, No. 8, 088-1106, 2012                                   | Bera T. K., Merzouki R., Ould Bouamama B. and Samantaray A. K.  | 0.667         |
| 4      | Design and validation of the reconfiguration strategy for a redundantly actuated intelligent autonomous vehicle”,   | Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, Vol. 226, No. 8, 1060-1076, 2012                                  | Bera T. K., Merzouki R., Ould Bouamama B. and Samantaray A. K., | 0.667         |
| 5      | An investigation into modelling thermal conductivity for alumina-water nanofluids   | International Journal of Powder Technology, vol. 233, pp. 234-244   | Mallick, SS, Mishra, A &Kundan, L                               | 2.2           |
| 6      | Modelling dense-phase pneumatic conveying of powders using suspension density.  | Particulate Science and Technology. 31: 340-347   | Mallick, S.S., Wypych, P.W. and Pan, R.                         | 0.58          |
| 7      | Investigating straight-pipe pneumatic conveying characteristics for fluidized dense-phase pneumatic conveying   | Particulate Science and Technology. 31: 348-356   | Bansal, A., Mallick, S.S. and Wypych, P.W.                      | 0.58          |
| 8      | Investigation of machining parameters and surface integrity in wire electric discharge machining of pure titanium   | Proceedings of the Institution of Mechanical Engineers, Part B, Journal of Engineering Manufacture, 227 (7), pp. 972-992, 2013  | Anish kumar<br>Vinod kumar<br>Jatinder kumar                    | 0.77          |
| 9      | Multi response optimization of process parameters based on Response surface methodology for pure titanium using WEDM process                                  | International Journal of Advanced Manufacturing Technology , DOI 10.1007/s00170-013-4861-9, 2013  | Anish kumar<br>Vinod kumar<br>Jatinder kumar                    | 1.2           |
| 10     | Effect of process variables on microhardness, grain size and strain during machining of various die steels with PMEDM using dummy treated experimental design | Proceedings of the Institution of Mechanical Engineers, Part B, Journal of Engineering Manufacture, Vol. 226, No. 7, pp. 1192-1204, July 2012<br>DOI:10.1177/0954405412442777 | Anirban<br>Bhattacharya, Ajay<br>Batish                         | 0.725         |
| 11     | Surface Characterization and Material Migration during Surface Modification of Die Steels with Silicon, Graphite and Tungsten Powder in EDM Process           | Journal of Mechanical Science and Technology (Springer)<br>Vol. 27, No. 1, January 2013, pp. 133~140,<br>DOI 10.1007/s12206-012-0883-8  | Anirban<br>Bhattacharya, Ajay<br>Batish, Naveen<br>Kumar        | 0.616         |



| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year             | Name of the authors                                 | Impact Factor |
|--------|---|--|---|---------------|
| 12     | EDM of Metal Matrix Composite for Parameter Design using Lexicographic Goal Programming | Materials and Manufacturing Processes, 28, 495-500           | Sarabjeet Singh, Ajay Batish, Sidhu; Sanjeev Kumar; | 1.297         |
| 13     | Fabrication and electrical discharge machining of metal-matrix composites: A review     | Journal of Reinforced Plastics and Composites, 32, 1310-1320 | Sarabjeet Singh; Sidhu; Ajay Batish Sanjeev Kumar   | 0.902         |

**List of research publications in Non-SCI/Non-Impact journals**

| S.No | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors   |
|------|---|---|---|
| 1.   | Experimental valuation on the single cylinder, 4-stroke CI engine using hemp oil and its respective blends for the analysis of performance and emission characteristics | IJES, 16(1), , pp 17-21, July 2012  | Ragit, S., Mohapatra, S. K., Kundu, K.                        |
| 2.   | Effect of addition of fly ash and drag Reducing on the rheological properties of bottom ash'  | International Journal of Mechanical and Materials Engineering (IJMME), vol 8, No. 1, 1-8, (2013)                                | Kumar, S., Mohapatra, S. K., Gandhi, B. K.,                   |
| 3.   | Performance and emission study of Indian brown hemp oil, methyl ester in a 4-stroke single cylinder water cooled diesel engine  | International Journal of Engineering Research and Technology, ISSN: 0974-3154, 6, 5, pp 15-19, March 2013.                      | Ragit S. S., Mohapatra, S. K., Kundu, K., and Patil, GJV      |
| 4.   | Methanolysis and ethanolysis of raw hemp oil; biodiesel production and fuel characterization  | International Journal of Engineering Research and Technology, ISSN: 2278-0181, 2, 3, pp 1-10, March 2013.                       | Ragit S. S., Mohapatra, S. K., Kundu, K., and Karmakar, R.,   |
| 5.   | Optimization of Pongamia methyl ester from trans-esterification process and fuel characterization as a diesel substitute  | Zenith International Journal of Multidisciplinary Research, ISSN 2231-5780, 3 (6), pp 130-140, June (2013).                     | Prasad V.S., Mohapatra, S. K., Kundu, K.                      |
| 6.   | Diagnostics for pretesting questionnaires: a comparative analysis   | Int. Journal of Technology, Policy and Management, Vol. 13, pp.67-79, 2013.   | Tarun Nanda, Himanshu Gupta, Manjeet Kharub and Navdeep Singh |
| 7.   | A new method to design cam used in automobile heating, ventilating and cooling system   | Journal of the Institution of Engineers (India), Series C; (Springer Publication), Vol. 93 (4), pp. 275-286, Oct.-Dec., 2012.   | Baljeet Singh, Daljeet Singh, J. S. Saini                     |
| 8.   | Dynamic Analysis of Condenser Assembly of Automobile Air Conditioning System using CAE Tools  | Journal of the Institution of Engineers (India), Series C; (Springer Publication), Vol. 94 (2), pp. 135-145, April-June, 2013.  | Manjeet Singh, Daljeet Singh, J. S. Saini                     |
| 9.   | Effect of cetylpyridinium chloride, triton X-100 and sodium dodecylsulphate on rheology of fly ash  | International Journal of Scientific and Research Publication (IJSRP), vol. 2, no. 8, pp. 1-5, Aug. 2012 (Online ISSN 2250-3153) | Singh, K. & Kundan, L.  |
| 10.  | A review of the thermal conductivity of Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O, EG based nanofluids   | GGGI Journal of Engineering and Technology, vol. 1, no. 2, pp. 45-51, 2012. (ISSN:2278-1226)                                    | Lal Kundan and Mallick S.S.                                   |
| 11.  | Thermal performance evaluation of a direct absorption flat plate solar collector (DASC) using Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O                          | IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), vol. 6, no. 2, pp. 29-35, 2013. (ISSN:                            | Verma, V. & Kundan, L.  |

| S.No | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors  |
|------|--|--|--|
|      | based nanofluids   | 2278-1684))  |  |
| 12.  | Performance evaluation of a nanofluid (CuO-H <sub>2</sub> O) based low flux solar collector  | International Journal of Engineering Research (IJER)', vol. 2, issue 2, pp. 108-112, 2013. (ISSN: 2319-6890)   | Kundan, L & P Sharma   |
| 13.  | An experimental investigation of the viscous behavior of Al <sub>2</sub> O <sub>3</sub> based nanorefrigerant                                  | International Journal on Theoretical and Applied Research in Mechanical Engineering (IJTARME), vol. 2, issue 3, pp. 143-147, 2013. (ISSN: 2319 - 3182)                 | Singh, G & Kundan, L.  |
| 14.  | An experimental study on thermal conductivity and viscosity of Al <sub>2</sub> O <sub>3</sub> / Nano Transformer Oil                           | International Journal on Theoretical and Applied Research in Mechanical Engineering (IJTARME), vol. 2, issue 3, pp. 125-130, 2013. (ISSN: 2319 - 3182)                 | Singh M.& Kundan L   |
| 15.  | Drop test analysis of impact attenuator for formula SAE car  | International Journal of Scientific and Research Publications, Volume 2, Issue 10, October 2012.   | Devender Kumar, Sachin Kumar, Gagandeep Singh, Naman Khanna            |
| 16.  | Investigation on centrifugal slurry pump performance with variation of operating speed   | International Journal of Mechanical and Materials Engineering, vol. 8 , no. 1, pp.40-47, 2012.   | Kumar Satish, Mohapatra, S. K., and Gandhi, B.K                        |
| 17.  | Defect detection in plated structures using ultrasonic guided waves  | Journal of Pure and Applied Ultrasonics, 34 (2-3), pp. 53-59.  | Sandeep K Sharma<br>Dr. Abhijit Mukherjee                              |
| 18.  | Metallographic analysis of pure titanium (grade-2) surface by wire electro discharge machining (WEDM)  | Journal of Machinery Manufacturing and Automation, vol.2, Issue1, pp. 1-5, World Academic Publishing CO., Ltd, 2013.   | Anish kumar<br>Vinod kumar<br>Jatinder kumar                           |
| 19.  | Optimization and modelling of process parameters involved in ultrasonic machining of glass using design of experiments and regression approach | American Journal of Materials Engineering and Technology, 2013, vol. 1, no. 1, pp. 13-18, Science and Education Publishing<br>DOI:10.12691/materials-1-1-3             | Vinod kumar  |
| 20.  | Effect of machining parameters on dimensional deviation in Wire Electric Discharge Machining process using pure titanium                       | Journal of Engineering and Technology, vol.3, Issue 2, pp. 105-112, 2013   | Anish kumar<br>Vinod kumar<br>Jatinder kumar.                          |
| 21.  | Predictor equations for estimating crater dimensions in PMEDM process using FEM simulation and experimental validation                         | Materials Science Forum, (Special Issue on: Recent Advances in Manufacturing Processes), vol. 751, pp. 45-60, March 2013.<br>DOI:10.4028/www.scientific.net/MSF.751.45 | Anirban Bhattacharya,<br>Ajay Batish                                   |
| 22.  | Optimizing the compression ratio of compression ignition engine fuelled with Esters of crude rice bran oil                                     | International Journal on Theoretical And Applied Research In Mechanical Engineering (IJATERME, ISSN : 2319 - 3182, Volume-2, Issue-3, 2013                             | Mohit Vasudeva1,<br>Sumeet Sharma2, S.K. Mohapatra3 & Krishnendu Kundu |

| S.No | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                                      |
|------|--|--|--|
| 23.  | Characterization of Biodiesel derived from waste cotton seed oil and waste mustard oil                                   | International Journal Of Engineering Science And Technology (IJEST), vol. 5, no.07, pp. 1443-48, July 2013. (ISSN : 0975-5462) | Sandeep Singh,, Sumeet Sharma, S.K. Mohapatra & K. Kundu |
| 24.  | Industry Support Institutions fostering Innovations culture among SME's of Punjab, India: A strategic Perspective        | The Asian Journal of Technology Management, Vol 6, No. 1, 37-48  | B S Sangha;T P Singh, Ajay Batish                        |
| 25.  | Electric Discharge Machining of 10VOL% AL <sub>2</sub> O <sub>3</sub> /AL metal matrix composite - an experimental study | Materials Science Forum, (Special Issue on: Recent Advances in Manufacturing Processes), vol. 751, pp. 9-19                    | Sarabjeet SinghSidhu; Ajay Batish Sanjeev Kumar          |

#### Publication of papers in conference proceedings and other publications

| S. No. | Title of the paper  | Name of the conference with venue, date and year, page nos.   | Name of the authors  |
|--------|---|---|--|
| 1.     | Study of particle size distribution on fluidization parameters in a 5 MW AFBC power plant using cotton stalk  | Widener University, Philadelphia, March 10-13, 2013, pp 1376-1381.  | Mohapatra, S. K., and Sharma, R. K.                            |
| 2.     | Effect of additive on the rheological properties of coal slurry, 28 <sup>th</sup> International Conference on Solid Waste Technology and Management         | Widener University, Philadelphia, March 10-13, 2013, pp 1376-1381.  | Kumar S., Mohapatra, S. K., and Gandhi B. K.,                  |
| 3.     | Modeling and simulation of flow distribution of centrifugal slurry pump, 28 <sup>th</sup> International Conference on solid waste Technology and Management | Widener University, Philadelphia, March 10-13, 2013, pp 1254-1260..   | Kumar S., Mohapatra, S. K., and Gandhi B. K.,                  |
| 4      | Bond graph modeling of an over-actuated intelligent autonomous vehicle with decoupled steering wheel",  | IEE International conference on Robotics and Biomimetics, 2012, Guangzhou, China, pp. 624-629.  | Bera T. K., Merzouki R., Ould Bouamama B. and Samantaray A. K. |
| 5      | Modelling of an Reconfigurable Autonomous Vehicle   | 1 <sup>st</sup> KIIT International Symposium on Advances in Automotive Technology, 2013, Bhubaneswar.   | Bera T. K., and Samantaray A.K.                                |
| 6      | An investigation into thermophysical properties of alumina (Al <sub>2</sub> O <sub>3</sub> ) based nanofluids for the convection heat transfer applications | In the proceeding of International Conference on application of Fluid Engineering (CAFE-2012)", G. L. Bajaj Institute of Technology and Management Greater Noida, pp-59, September 2012 | Kundan Lal and S.S. Mallick                                    |
| 7      | A review on the performance of the nanofluid based solar collectors - solar energy  | In the proceeding of National Conference on Recent Advances in Renewable Energy & Environment Sciences (NCRAREES)" Shoolini University H.P., June 2013                                  | Sharma K., Kundan L  |
| 8      | A review on the performance of the nanorefrigerant based vapour compression cycle   | In the proceeding of National Conference on Recent Advances in Renewable Energy & Environment Sciences (NCRAREES)" Shoolini University H.P., June 2013.                                 | Singh S., Kundan L   |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors  |
|--------|--|---|--|
| 9      | Nanoclay reinforced epoxy as matrix in fiber reinforce composites  | Advances in Naval Materials NIOT, Chennai, February 22-23, 2013, Pages 63-74.   | Vishwasrao B. Patil, Bikramjit Sharma, Rahul Chhibber and Rajeev Mehta |
| 10     | Performance analysis of a solar parabolic trough collector using different reflective material for hot water generation  | National Conference on Low and High Temperature Application of Solar Energy, NIT Kurukshtera, 25-26 May, 2013.  | Devender kumar, Sanjay ,Avadhesh Yadav                                 |
| 11     | Modelling and simulation of ejector based multi-evaporator refrigeration system  | International Conference on "Sustainable Innovative Techniques in Civil and Environmental Engineering" on 5 <sup>th</sup> -6 <sup>th</sup> June, 2013 at Jawaharlal Nehru University (JNU), New Delhi | Harpreet Singh and Madhup Kumar Mittal                                 |
| 12     | An automated system to detect gate parameters for die-casting dies   | 3 <sup>rd</sup> International Conference on Production and Industrial Engineering, CPIE-2013, NIT, Jalandhar, March 29-31, 2013, P1-10.   | A. S. Johal, Kishore Khanna, and Ranjit Singh                          |
| 13     | Thermal stress analysis in a functionally graded rotating disc with variable thickness   | National Congress of Science and Technology, DAV-NCST, 2013, DAVIET Jalandhar, May 30-31, 2013.   | Rupinder Singh, Kishore Khanna, and Manish Garg                        |
| 14     | Modeling and simulation of flow distribution of centrifugal slurry pump  | The twenty-eighth international conference on solid waste technology and management, Widener University, University Place, Chester, Philadelphia, U.S.A., March 10-13, 2013                           | Kumar Satish ,Mohapatra, S. K., and Gandhi,B.K                         |
| 15     | Design of centrifugal pump using computational fluid dynamics  | International conference on Innovations in Engineering & Management' (ICIEM 2013), 22-23 February, 2013, BITS Patna.  | Kumar Satish ,Mohapatra, S. K., and Gandhi,B.K                         |
| 16     | Damage Diagnosis in GFRP Laminates using guided waves in submerged state   | International Conference on Advanced Materials for Energy Efficient Buildings (AME2 B-2013), Organised By CSIR-CBRI Roorkee at India Habitat Centre New Delhi, Feb 13-15, 2013.                       | Sandeep Sharma Shrutu Sharma   |
| 17     | Investigating straight-pipe pneumatic conveying characteristics and minimum transport boundaries for fluidized dense-phase pneumatic conveying of fine powders | In the Proceedings of 7 <sup>th</sup> International Conference on Conveying and Handling of Particulate Solids, Friedrichshafen, Germany, 10-13 <sup>th</sup> September, 2013.                        | Setia, G., Bansal, A. and Mallick, S.S.                                |
| 18     | Modelling thermal conductivity for nanopowder suspension in fluid (nanofluid)  | In the Proceedings of 7 <sup>th</sup> International Conference on Conveying and Handling of Particulate Solids, Friedrichshafen, Germany, 10-13 <sup>th</sup> September, 2013                         | Mallick, S.S. and Mishra, A.   |
| 19     | Input shaped open-loop control for vibration suppression of lightweight flexible manipulators  | Proceedings of International Conference on Emerging Technologies - Micro to Nano (ETMN-2013), pp 69-70, BITS Goa.   | Ashish Singla, Ekta Singla   |
| 20     | Electric discharge machining parameter selection for Al/Zr composite using Taguchi L27 orthogonal design   | Proceedings of 4 <sup>th</sup> International Conference on Recent Advances in Composite Materials (ICRACM-  | R. Singh, R. S. Panwar, O. P. Pandey, A. Singla                        |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.  | Name of the authors                   |
|--------|--|--|---------------------------------------|
|        |  | 2013), IIT BHU, GOA  | and P. Sharma                         |
| 21     | An analytical study on human body vibration for Indian subjects under sitting posture  | 5 <sup>th</sup> International Conference on Whole Body Vibration Injuries, 5 <sup>th</sup> to 7 <sup>th</sup> June 2013 in Amsterdam, Holland. | Ishbir Singh, SP Nigam, V Huzur Saran |
| 22     | Aerodynamic analysis of Cabriolet passenger car: A design approach   | 17 <sup>th</sup> Asia Pacific Automotive Conference by SAE, 1-3 April 2013, Bangkok, Thailand  | Felix Regin, A B Reddy, SP Nigam      |
| 23     | An assessment of regional innovation system among all small scale auto parts industry of Punjab  | Proceedings of VII Annual International Conference of Knowledge forum held on Nov 30-Dec 2, 2012   | B S Sangha; T P Singh, Ajay Batish    |
| 24     | Best Practice (I) Performance Incentive Scheme for faculty who have excelled in teaching and research at Thapar Institute of Engineering & Technology University | Workshop of IQAC Coordinators, National Assessment and Accreditation Council, July 4-5, 2012, Bangalore  | Ajay Batish                           |
| 25     | Best Practice (II) Continual Improvement of academic processes and programs at Thapar Institute of Engineering & Technology University                           | Workshop of IQAC Coordinators, National Assessment and Accreditation Council, July 4-5, 2012, Bangalore  | Ajay Batish                           |

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**List of research publications in SCI/Impact Factor journals**

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors   | Impact Factor |
|--------|---|---|---|---------------|
| 1      | Study of surface properties in particulate reinforced MMC using powder-Mixed EDM  | Materials and Manufacturing Processes, 29: 46-52, 2014  | Sarabjeet Singh Sidhu, Ajay Batish, Sanjeev Kumar                     | 1.486         |
| 2      | An Experimental Study to Evaluate the Effect of Ambient Temperature during Manual Lifting and Design of Optimal Task Parameters | Human Factors and Ergonomics in Manufacturing and Service Industries Vol 24, Issue 1, pp 56-70  | Ravindra Pratap Singh, Ajay Batish, Anirban Bhattacharya, T. P. Singh | 0.624         |
| 3      | Determination of safe limits of significant task parameters during manual lifting   | Workplace Health & Safety, Volume 62 · Issue 4: 150-160   | Ravindra Pratap Singh, Ajay Batish, T. P. Singh                       | 0.856         |
| 4      | A multipoint method for 5-axis machining of triangulated surface models   | Computer-Aided Design, Elsevier, Vol. 52, page 17-26, 2014  | R K Duvedi, Sanjeev Bedi, Ajay Batish, Stephen Mann                   | 1.264         |
| 5      | Performance characteristics of centrifugal slurry pump with multi-sized particulate bottom and fly Ash mixtures                 | Particulate Science and Technology.32:366-376.  | Kumar Satish, Gandhi, B.K., and Mohapatra, S. K.                      | 0.586         |
| 6      | Development of Automatic GMAW Setup for Process Improvements: Experimental and Modeling Approach                                | Materials and Manufacturing Processes, Taylor and Francis (ISSN 1042-6914 (Print), 1532-2475 (Online)) Vol. 29, No. 8, pp. 988-995, 2014. | Bhattacharya A., and Bera T. K.                                       | 1.486         |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors  | Impact Factor |
|--------|--|--|--|---------------|
| 7      | Rheological behavior of MR polishing fluid in ball end magnetorheological finishing process  | Magneto hydrodynamics (2013) 49/3- 4: 512-515.   | Anant Kumar Singh, Sunil Jha, P.M. Pandey                              | 0.55          |
| 8      | Modelling thermal conductivity for alumina-water nanofluid   | International Journal of Particulate Science and Technology-Taylor Francis, vol. 32, Issue 3, pp. 319-326, 2014.   | Mishra A, Kundan L & Mallick SS  | 0.60          |
| 9      | Hard Turning: Parametric Optimization using Genetic Algorithm for Rough/Finish Machining and Study of Surface Morphology                   | Journal of Mechanical Science and Technology Vol. 28, No. 5, May 2014, pp. 1629-1640.  | Ajay Batish, Anirban Bhattacharya, Manwinder Kaur, Manjot Singh Cheema | 0.616         |
| 10     | Surface Roughness and Profile Error in Precision Diamond Turning of C18000   | Materials and Manufacturing Processes, Taylor and Francis, Vol. 29, No. 5, Pages: 606-613,   | Anikate Gupta, S V Ramagopal, Ajay Batish, Anirban Bhattacharya        | 1.297         |
| 11     | Experimental investigation of material transfer mechanism in WEDM of pure titanium (Grade-2  | Advances in Materials Science and Engineering, Vol.2013, Article ID: 847876, PP.1-20,DOI: 10.1155/2013/847876, Hindawi Publishers  | Anish kumar Vinod kumar Jatinder kumar                                 | 0.897         |
| 12     | Surface integrity and material transfer investigation of pure titanium for rough cut surface after wire electro discharge machining        | Proceedings of the Institution of Mechanical Engineers, Part B, Journal of Engineering Manufacture, SAGE publications, (Published online, December 2013),DOI:10.1177/0954405413513013,PP 1-22. | Anish kumar Vinod kumar Jatinder kumar                                 | 0.77          |
| 13     | Microstructure analysis and material transformation of pure titanium and tool wear surface after Wire Electric Discharge machining process | Machining Science and Technology, 18:47-77, 2014 Taylor & Francis Group, DOI: 10.1080/10910344.2014.863632   | Anish kumar Vinod kumar Jatinder kumar                                 | 0.876         |
| 14     | On Improving Solid Friction Factor Modelling for Fluidized Dense-Phase Pneumatic Conveying Systems   | Powder Technology, Volume 257, pp 88-103, year 2014  | Gautam Setia, S.S.Mallick, P.W. Wypych                                 | 2.499         |
| 15     | Anisotropic CuO nanostructures of different size and shape exhibit thermal conductivity superior than typical bulk powder                  | Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 459, pp 282-289, year 2014  | Bhupender Pal, Soumya Suddha Mallick and Bonamali Pal                  | 2.494         |
| 16     | Vehicular traffic noise modeling using artificial neuron network approach  | Transportation Research Part-C, v. 40 pp 111-122   | Paras Kumar, S.P. Nigam & Narotam Kumar                                | 3.118         |

**List of research publications in Non-SCI/Non-Impact journals**

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors  |
|--------|--|---|--|
| 1      | Characterisation of biodiesel derived from waste cotton seed oil and waste mustard oil   | International Journal of Engineering Science and Technology (IJEST), ISSN: 0975-5467, Vol 5, No 7, July 2013, pp 1443-1448.   | Singh S., Sharma S., Mohapatra, S. K., Kundu, K.   |
| 2      | Exhaust gas emission revelation during the study of performance of Pongamia oil as biodiesel   | International Journal of Engineering Research & Technology (IJRET), ISSN: 2278-0181, Vol 2, Issue 8, August-2013, pp 993-997.   | Prasad V.S. Mohapatra, S. K., Pooja I.M.   |
| 3      | An experimental study on thermal conductivity and viscosity of Al <sub>2</sub> O <sub>3</sub> / Nano-transformer oil   | International Journal on Theoretical and Applied Research in Mechanical Engineering (IJTARME), vol. 2, issue 3, pp. 125-130, 2013 (ISSN: 2319 - 3182)   | Singh M, Kundan L  |
| 4      | Experimental investigation into thermal conductivity and viscosity of Al <sub>2</sub> O <sub>3</sub> based engine coolant (Nano-coolant)                               | International Journal of Research in Mechanical Engineering & Technology (IJRMET vol. 3, issue 2, pp. 184-187. (ISSN: 2249-5762 (Online)   ISSN: 2249-5770 (Print), 2013, Pub: Cosmic Journals. | Sharma G & Kundan L  |
| 5      | Experimental investigation of various parameters on thermal conductivity of Al <sub>2</sub> O <sub>3</sub> based nanorefrigerant                                       | International Journal of Engineering Research & Technology (IJERT), vol. 2, issue 12, pp. 3408-3417, 2013. (ISSN: 2278 - 0181)  | Singh, G, Kundan, L  |
| 6      | Experimental Study of Failure Modes and Scaling Effects in Micro-Incremental Forming   | Journal of Micro and Nano-Manufacturing (Transactions of ASME) Volume 1, Issue 3, September 2013, 031005 (2013) (15 pages); doi:10.1115/1.4025098   | Michael Beltran, Rajiv Malhotra, A. J. Nelson, Anirban Bhattacharya, N. V. Reddy, Jian Cao |
| 7      | Finite element modeling and analysis of powder mixed electric discharge machining process for temperature distribution and volume removal considering multiple craters | International Journal of Modeling, Simulation, and Scientific Computing, Volume 5, No. 3, pages 1450009-1 - 1450009-21  | Hardeep Singh, Anirban Bhattacharya, Ajay Batish   |
| 8      | Experimental Study of Failure Modes and Scaling Effects in Micro-Incremental Forming   | Journal of Micro and Nano-Manufacturing (Transactions of ASME) Volume 1, Issue 3, September 2013, 031005 (2013) (15 pages); doi:10.1115/1.4025098   | Michael Beltran, Rajiv Malhotra, A. J. Nelson, Anirban Bhattacharya, N. V. Reddy, Jian Cao |

**Publication of papers in conference proceedings and other publications**

| S. No. | Title of the paper  | Name of conference with venue, date and year, page nos.   | Name of the authors                                    |
|--------|---|---|--|
| 1.     | Effect of addition of fly ash on the rheological properties of bottom ash slurry at varying temperature                             | Proc. International Conference on PGBSIA, November 28-31, 2013, Thapar Institute of Engineering & Technology University, Patiala, pp 388-393. | Kumar S., Mohapatra, S. K., and Gandhi B. K            |
| 2.     | Performance and emission characteristics of a C.I. engine fuelled with different blends of biodiesel derived from waste mustard oil | Proc. of Intl. conf. on Advances in Mechanical Engineering, AETAME, NOIDA, Dec 13-14, 2013.   | Bhardwaj V., Sharma S., Mohapatra, S. K., and Kundu, K |

| S. No. | Title of the paper  | Name of conference with venue, date and year, page nos.   | Name of the authors  |
|--------|---|---|--|
| 3.     | Numerical Simulation of Solid liquid two phase Flow behaviour in Centrifugal slurry Pump                                      | International conference on Powder, Granule and Bulk Solids: Innovations and applications, Thapar Institute of Engineering & Technology University, Patiala, India, 1,170-175.  | Kumar Satish, Gandhi, B.K., and Mohapatra, S. K.               |
| 4.     | Scallop Height of 5-axis Machining of Large Triangles with a Flat End Mill  | Annual International CAD conference, CAD'14, Hong Kong, 23to 26 June, 2014  | Ravinder Kumar Duvedi, Ajay Batish, Sanjeev Bedi, Stephen Mann |
| 5.     | Analysis and Control of Semi Active Suspension System for a Bicycle vehicle model: A Bond Graph Approach                      | Second International Conference on Intelligent Robotics, Automation and Manufacturing (IRAM), IIT Indore, December 2013; pp. 168-173.   | Bera, T. K. and Singh, J.                                      |
| 6.     | Bond graph aided performance analysis of antilock braking system for a bicycle vehicle model with camber angle and fork angle | International Conference on Machines and Mechanisms (iNaCoMM 2013), IIT Roorkee, December 2013; pp 70-76.   | Bera, T. K. and Singh, A.                                      |
| 7.     | A novel ball end magnetorheological finishing process   | ASME 2014 International Mechanical Engineering Congress & Exposition, IMECE2014, November 14-20, 2014, Montreal, Canada.  | Anant Kumar Singh, Sunil Jha, P.M. Pandey                      |
| 8.     | Effect of dispersion parameters on thermal conductivity of alumina and copper oxide nanofluid,                                | "International Conference on Powder, Granule and Bulk Solids: Innovations and Applications (PGBSIA 2013)", Nov. 28-30, 2013. (Poster Presentation)  | Kundan L & Mallick SS  |
| 9.     | Powder Mixed Dielectric: An Approach for Improved Process Performance in EDM  | Proceedings of International Conference on Powder, Granule and Bulk Solids: Innovations and Applications (PGBSIA), Mechanical Engineering Department, Thapar Institute of Engineering & Technology University Patiala - 147004, Punjab<br>November 28-30, 2013,<br>pp. 370 - 376. | Ajay Batish, Anirban Bhattacharya, Naveen Kumar                |
| 10.    | Experimental Investigation of Magnetic field assisted Powder Mixed Electric Discharge Machining                               | Proceedings of International Conference on Powder, Granule and Bulk Solids: Innovations and Applications (PGBSIA), Mech. Engg Dept., TU Patiala, November 28-30, 2013, pp. 344 - 350  | Geeta Bhatt, Anirban Bhattacharya, Ajay Batish                 |
| 11.    | Taguchi method approach for determining the effect of process variables on properties of epoxy nanocomposites                 | International conference on advanced polymeric materials, October 11-13, 2013, Kottayam, 95   | Bikramjit Sharma, Rahul Chhibber, Rajeev Mehta                 |
| 12.    | Composite Cladding on Mild Steel Substrate using Microwave Hybrid Heating   | The International Conference on Smart Technologies for Mechanical Engineering (STME-2013), DTU, Delhi, 731-735. 2013  | Dheeraj Gupta, Deepika Naudiyal                                |
| 13.    | Simulation of single slope solar still at different inclinations using CFD  | International conference of advance research innovation (ICARI- 2014) Venue: Institution of Engineers Delhi State Center, Engineers Bavan 2, Bahadur Shah Zafar Marg, New Delhi Date & Year: February 1st 2014, Page no: 512-519.   | Amrik Singh, M. K. Mittal                                      |



| S. No. | Title of the paper   | Name of conference with venue, date and year, page nos.   | Name of the authors                             |
|--------|--|---|---|
| 14.    | Tool Path Generation for Free Form Surfaces using B-Spline Surface   | International Conference on Research and Innovations in Mechanical Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab, Oct., 24-26 <sup>th</sup> , 2013                                      | Simranpreet S. Randhawa, J. S. Saini            |
| 15.    | Effect of Clay Reinforcement on the Properties of Epoxy based Polymer Matrix Nanocomposites                      | Proceeding of the International Conference on Emerging Trends in Engineering and Management, November 8-9, 2013, MED, CIET, Jalvehra, Fatehgarh Sahib.  | Karanbir Singh and Tarun Nanda                  |
| 16.    | Effect of Alloying and Heat Treatment on the Properties of Super Martensitic Stainless Steels                    | Proceeding of the International Conference on Emerging Trends in Engineering and Management, November 8-9, 2013, MED, CIET, Jalvehra, Fatehgarh Sahib.  | Surinder Singh and Tarun Nanda                  |
| 17.    | D-H Parameters Augmented with Dummy Frames for Serial Manipulators containing Spatial Links                      | The 23rd IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2014), August 25-29, 2014, Edinburg, Scotland, UK (Accepted)   | Amanpreet Singh, Ashish Singla and Sanjeev Soni |
| 18.    | High Index Norm Approach: A Redundancy Resolution Scheme For Inverse Kinematics of Redundant Serial Manipulators | Proceedings of 6 <sup>th</sup> International IEEE Conference on Robotics and Mechatronics (ROBMECH-2013), pp. 40-45, Oct 30-31, 2013, Durban South Africa   | Ashish Singla                                   |
| 19.    | Vibration Suppression of a Cart-Flexible Pole System Using a Hybrid Controller                                   | Proceedings of the 1st International and 16th National Conference on Machines and Mechanisms (iNaCoMM2013), pp. 375-382, Dec 18-20, 2013, IIT Roorkee, India  | Ashish Singla                                   |
| 20.    | An investigation into the stability and thermal conductivity of silver/water nanofluids                          | International Conference on Powder, Granule and Bulk Solids: Innovations and Applications, November 28-30, 2013, Thapar Institute of Engineering & Technology University, pp 271-276                        | Apoorva Singh, B.Pal and S.S. Mallick           |
| 21.    | Evolution of Scale-Up Procedures for Dense-Phase Pneumatic Conveying of Powders                                  | 15 <sup>th</sup> International Freight Pipeline Society Symposium 2014, Czech Association of Scientific and Technical Societies (CSVTS), Novotného lávka 5, Praha 1, Czech Republic, 24 June - 26 June 2014 | P.W. Wypych, S.S. Mallick, R. Pan               |
| 22.    | A Comparative study of various methods for identification of isomorphism in kinematic chains                     | Ist international and 16 <sup>th</sup> National Conference on machines and mechanisms (iNaCoMM 2013) IIT Roorkee. pp 582-589  | Rashmi Arora & S.P. Nigam                       |

## List of research publications in SCI/Impact Factor journals

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors   | Impact Factor and Citation Index |
|--------|--|---|---|----------------------------------|
| 1.     | Modal Analysis of human body vibration model for Indian subjects under sitting posture                             | Ergonomics<br>DOI:10.1080/00140139.2014.961567  | I Singh, S P Nigam<br>V H Saran   | 1.7                              |
| 2.     | Vehicle Traffic Noise Modeling using artificial neural network approach  | Transportation Research Part C 40<br>(2014) 111-122   | P Kumar, S.P.<br>Nigam, N. Kumar  | 2.6                              |
| 3.     | Performance Characteristics of Centrifugal Slurry Pump with multi-sized particulate bottom and fly ash mixtures,   | Particulate Science and Technology, 32 (5), 2014  | Kumar S.,<br>Gandhi, B. K.,<br>Mohapatra, S. K.                         | 0.48                             |
| 4.     | A three dimensional CFD modelling of 45 tph fluidised bed combustor based on biomass and coal                      | Materials Research Innovations, 2015  | Kumar, H.,<br>Mohapatra, S. K.,<br>Singh, RI                            | 0.47                             |
| 5.     | Fluidised bed combustion based on co-firing biomass and coal   | Sadhana   | Kumar, H.,<br>Mohapatra, S. K.,<br>Singh RI                             | 0.59                             |
| 6.     | Numeric Implementation of Drop and Tilt Method of 5-Axis Tool Positioning for Machining of STL surfaces            | International Journal of Advanced Manufacturing Technology (IJAMT), 2015  | Ravinder Kumar<br>Duvedi<br>Sanjeev Bedi<br>Ajay Batish<br>Stephen Mann |                                  |
| 7.     | Experimental Investigation of Magnetic Field Assisted Powder Mixed Electric Discharge Machining                    | Particulate Science and Technology (Taylor and Francis) Accepted: 04 Sept, 2014 Online: 29 Sept, 2014<br>DOI:10.1080/02726351.2014.968303                       | Dr. Ajay Batish<br>and<br>Dr. Anirban<br>Bhattacharya                   | 0.482                            |
| 8.     | Powder Mixed Dielectric: An Approach for Improved Process Performance in EDM                                       | Particulate Science and Technology (Taylor and Francis)<br>Accepted: 20 July, 2014<br>Online: 03 Sept 2014<br>DOI:10.1080/02726351.2014.947659                  | Dr. Ajay Batish<br>and<br>Dr. Anirban<br>Bhattacharya                   | 0.482                            |
| 9.     | Microwave Processing Of Materials and Applications in Manufacturing Industries                                     | A Review, Journal of Materials and Manufacturing Processes, 30: 1-29, 2015. [Publisher: Taylor and Francis  | Singh, S., Gupta,<br>D., Jain, Vivek.,                                  | 1.8                              |
| 10.    | Recent Applications of Microwaves in Material Joining and Surface Coatings   | Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, DOI: 10.1177/0954405414560778 (In press). [Publisher: Sage] | Singh, S., Gupta,<br>D., Jain, Vivek.,                                  | 0.7                              |
| 11.    | Comparative study for surface topography of bone drilling using conventional drilling and loose abrasive machining | Journal of Engineering in Medicine, DOI: 10.1177/0954411915576945 (In press). [Publisher: Sage,   | Gurmeet Singh,<br>Vivek Jain,<br>Dheeraj Gupta,                         | 1.14                             |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors   | Impact Factor and Citation Index |
|--------|--|--|---|----------------------------------|
| 12.    | An investigation into flow mode transition and pressure fluctuations for fluidized dense-phase pneumatic conveying of fine powders | Particuology, 16: 187-195, 2014  | Mittal A., Mallick S.S. and Wypych P.W                          | 2.058                            |
| 13.    | Shape dependent thermal conductivity of TiO <sub>2</sub> -deionized water and ethylene glycol dispersion,                          | Journal of Nanoscience and Nanotechnology, 15(5): 3670-3676, 2014,   | Pal, Bhupinder, Mallick, S.S., Pal, B., 2015                    | 1.17                             |
| 14.    | Anisotropic CuO nanostructures of different size and shape exhibit thermal conductivity superior than typical bulk powder          | Colloids and Surfaces A: Physicochemical and Engineering Aspects, , 459: 282-289, 2014   | Pal Bhupinder, Mallick S.S., Pal B                              | 2.94                             |
| 15.    | Modelling Fluidized Dense-Phase Pneumatic Conveying of Fly Ash   | Powder Technology, 270: 39-45, 2015,   | Setia. G and Mallick S.S  | 2.499                            |
| 16.    | Mechanical and Metallurgical Studies in Double Shielded GMAW of Dissimilar Stainless Steels  | Materials and Manufacturing Processes (Taylor and Francis)<br>Accepted: 7Nov, 2014<br>Online: 16 Dec, 2014<br>DOI:10.1080/10426914.2014.994760   | Dr.Anirban Bhattacharya<br>And<br>Dr.Tarun Kumar Bera           | 1.486                            |
| 17.    | Influence of Current and Shielding Gas in TiO <sub>2</sub> Flux Activated TIG Welding on Different Graded Steels                   | Materials and Manufacturing Processes (Taylor and Francis)<br>Accepted: 11 Sept, 2014<br>Online: 16 Oct 2014<br>DOI:10.1080/10426914.2014.973591   | Dr.Anirban Bhattacharya<br>And<br>Dr.Tarun Kumar Bera           | 1.486                            |
| 18.    | On Cutter Deflection Profile Errors in End Milling: Modeling and Experimental Validation   | Materials and Manufacturing Processes (Taylor and Francis)<br>Accepted: 18 Sept, 2014<br>Online: 16 Oct 2014<br>DOI:10.1080/10426914.2014.973598   | Dr.Anirban Bhattacharya and Dr.,Tarun Kumar Bera                | 1.486                            |
| 19.    | Development of Automatic GMAW Setup for Process Improvements: Experimental and Modeling Approach                                   | Materials and Manufacturing Processes, Taylor and Francis, Vol. 29, No. 8, pp. 988-995, 2014   | Bhattacharya A., and Bera T. K.                                 | 1.486                            |
| 20.    | Influence of Heat Input in Automatic GMAW: Penetration Prediction and Microstructural Observation                                  | Materials and Manufacturing Processes, Taylor and Francis Vol. 29, No. 10, pp. 1210-1218, 2014.  | Bhattacharya A., Bera T. K. and Suri V.K.                       | 1.486                            |
| 21.    | Surface Roughness and Profile Error in Precision Diamond Turning of C18000   | Materials and Manufacturing Processes (Taylor and Francis) (Impact Factor: 1.486)<br>ISSN: 1042-6914 (Print), 1532-2475 (Online)<br>Accepted, February 27, 2014<br>Online: 21 <sup>st</sup> March, 2014<br>Volume 29, Issue 5, May 2014,<br>Pages 606-613, DOI: 10.1080/10426914.2014.901529 | Anikate Gupta, S V Ramagopal, Ajay Batish, Anirban Bhattacharya | 1.486                            |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                            | Impact Factor and Citation Index |
|--------|--|--|--|----------------------------------|
| 22.    | Material Transfer Mechanism during Magnetic Field Assisted Electric Discharge Machining of AISI D2, D3 and H13 Die Steel | Proceedings of the Institution of Mechanical Engineers, Part B, Journal of Engineering Manufacture<br>Accepted, January 15, 2014<br>Online: 14 <sup>th</sup> March, 2014<br>Volume 229, No. 1, Pages: 62-74 (January, 2015)<br>DOI:10.1177/0954405414522797<br>(Impact Factor: 0.661) ISSN 0945-4054 | Anirban Bhattacharya, Ajay Batish, Geeta Bhatt | 0.661                            |

#### List of research publications in Non-SCI/Non-Impact journals

| Sl. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors   |
|---------|--|--|---|
| 1.      | A Production of Biodiesel from Waste Cotton Seed Oil and Testing on Small Capacity Diesel Engines                      | International Journal Advance Research in Science and Engineering, 2014 (2), 172-176                                   | Singh, S., Sharma, S, Mohapatra, S. K., Kundu, K            |
| 2.      | Transportation performance of highly concentrated coal-water slurries prepared from Indian coals                       | Applied Mechanics and Materials, July 2014   | Dr. S. K. Mohapatra & Dr. Satish Kumar                      |
| 3.      | CFD simulation of spray cooling : Review and problems  | Int. Journal of Engineering and Technology management and applied sciences Vol. 3, special issue March 2015, 587-593   | Anam Singh, V.P. Aggarwal                                   |
| 4.      | Attribute based evaluation And optimize selection of non- conventional biodiesel production methods using MADM- TOPSIS | Int. Journal of Engineering and Technology management and applied sciences Vol. 3, special issue March 2015, 577-586   | Farun Garg and V.P. Aggarwal                                |
| 5.      | Linear stability analysis of hydrodynamic Journal bearing with flexible and micro polar lubrication                    | Tribology Transaction Vol.58 2015, 316-326   | Pikesh Bansal, Ajit K. Chattopadhyay and Vishnu P, Aggarwal |
| 6.      | Optimization of cutting parameters for surface roughness of stainless steel SS304 in abrasive assisted drilling        | Procedia Material Science 6, (2014) 1572 - 1579, [Publisher: Elsevier].  | Kapil Kumar Goyal, Vivek Jain and Sudha kumari              |
| 7.      | A novel ball end magnetorheological finishing process  | ASME 2014 International Mechanical Engineering Congress & Exposition, IMECE2014 Montreal, Canada. November 14-20, 2014 | Dr. Anant Kumar Singh                                       |

### Publication of papers in conference proceedings and other publications

|    |   |   |  |
|----|---|---|--|
| 1. | Magneto rheological fluids in viscous friction Torsional vibration dampers                      | 18 <sup>th</sup> IRF International conference, Pune, 11 <sup>th</sup> Jan 2015, 90 – 95   | Anant Chawla and S.P. Nigam                              |
| 2. | Application of hybrid fuzzy expert system to predict the quality of laser beam machined surface | Processing and fabrication of Advanced materials XXIII, Organized by Mechanical Engineering Department, Indian Institute of Roorkee, Co-organized by Division of Materials Science and Engineering, University of Akron, Ohio, USA during December 5-7, 2014, pp. 405-416.  | Gaurav Sharma<br>Vinod Kumar                             |
| 3. | Optimization and Characterization of magnetic field assisted PMEDM of Die steel (H13)           | National conference on “Advances in Manufacturing Systems Technology, Materials and Management (CAMS-2014) sponsored by TEQIP-II and AICTE, Delhi organized by department of Mechanical Engineering, Shaheed Bhagat Singh state technical campus, Ferozepur during 5 <sup>th</sup> - 6 <sup>th</sup> , Sept 2014, pp.53-60, ISBN: 978-93-83842-71-1 | Devinder Singh Sidhu<br>Vinod Kumar                      |
| 4. | A novel ball end magnetorheological finishing process   | ASME 2014 International Mechanical Engineering Congress & Exposition, IMECE2014, November 14-20, 2014, Montreal, Canada. (Presented at Conf. venue Personally)  | Anant Kumar Singh,<br>Sunil Jha, P.M. Pandey             |
| 5. | Exploring forging load in closed-die forging  | 5 <sup>th</sup> International & 26 <sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014) IIT Guwahati, Assam, India<br>December 12 <sup>th</sup> -14 <sup>th</sup> , 2014, pp 280-1 – 280-6.   | D. Sheth, Santanu Das, A. Chatterjee and A. Bhattacharya |

### SCHOOL OF ENERGY AND ENVIRONMENT

#### 2014

1. Bhatia P, Pandey S, Prakash R, Tejo Prakash N, 2014, Enhanced anti-oxidant activity as a function of selenium hyperaccumulation in *Agaricus bisporus* cultivated on Se-rich agri-residues. *Journal of Biologically Active Products from Nature*, 4: 354-364
2. Gupta S, Goyal R, Tejo Prakash N, 2014, Biosequestration of lead using *Bacillus* strains isolated from seleniferous soils and sediments of Punjab. *Environmental Science and Pollution Research*, 21: 10186-10193.
3. Bhatia P, Prakash R, Tejo Prakash N, 2014, Enhanced antioxidant properties as a function of selenium uptake by edible mushrooms cultivated on selenium-accumulated waste post-harvest wheat and paddy residues, *International Journal of Recycling of Organic Waste in Agriculture*, 3: 127-132.
4. Bhatia P, Bansal C, Prakash R, Tejo Prakash N. 2014, Selenium uptake and associated anti-oxidant properties in *Pleurotus fossulatus* cultivated on wheat straw from seleniferous fields. *Acta Alimentaria*, 43: 280-287.
5. Gangwar AK, Tejo Prakash N, Ranjana Prakash, 2014, Applicability of microbial xylanases in paper pulp bleaching: A Review. *BioResources*, 9: 3733-3754
6. Verma A, Tejo Prakash N, Toor AP. 2014, Photocatalytic Degradation of Herbicide Isoproturon in TiO<sub>2</sub> Aqueous Suspensions: Study of Reaction Intermediates and Degradation Pathway. *Environmental Progress and Sustainable Energy*, 33: 402-409.
7. Verma A, Tejo Prakash N, Toor AP. 2014, An efficient TiO<sub>2</sub> coated immobilization system for degradation studies of herbicide isoproturon: Durability studies. *Chemosphere*, 109: 7-13
8. Kunal, Siddique R, Rajor A. 2014. Influence of bacterial treated cement kiln dust on the properties of concrete. *Construction and Building Materials*. 52. 42-51.
9. Verma A., Isha, Dixit D. 2014. Sonophotocatalytic treatment of pharmaceutical Industry Wastewater over TiO<sub>2</sub>

photocatalyst using immersion well reactor. *Desalination and Water Treatment*. DOI: 10.1080/19443994.2013.822164.

10. Verma, A., Hura, A. K. and Dixit, D., Sequential photocatalytic and sono-photocatalytic degradation studies of Reactive Black 5 (RB5), *Desalination and water treatment*, 2014 (doi: 10.1080/19443994.2014.940390)
11. Verma, A., Kaur, M., Rajput, H., Potential use of foundry sand as heterogeneous catalyst in solar photo-Fenton degradation of herbicide Isoproturon, *International Journal of Environmental research* (Accepted)
12. Verma, A., Dixit, D., Toor, A.P. and Srivastava, J., Heterogeneous Photocatalytic Degradation of 2-Chloro-4-Nitrophenol using Slurry and Fixed Bed Reactor, *Environmental progress and sustainable energy*, 2014 (DOI 10.1002/ep.11997)
13. Sharma T, Rajor A and Toor AP (2014). Degradation of Imidacloprid in liquid by *Enterobacter* sp. strain ATA1 using co-metabolism. *Bioremediation Journal*, 18 (3): 227-235.
14. Kunal, Rafat Siddique and Anita Rajor (2014). Strength and Microstructure Analysis of Bacterial Treated Cement Kiln Dust Mortar. *Construction and Building Materials*, 63: 49-55. (July 2014)

## 2013

1. Arora A.S., Reddy A.S. 2013. Multivariate analysis for assessing the quality of stormwater from different Urban surfaces of the Patiala city, Punjab, India, *Urban Water Journal*. 10. 422-433.
2. Verma A., Tejo Prakash N., Toor A.P. 2013. Photocatalytic Degradation of Herbicide Isoproturon in TiO<sub>2</sub> Aqueous Suspensions: Study of Reaction Intermediates and Degradation Pathway. *Environmental Progress and Sustainable Energy* (DOI 10.1002/ep.11799)
3. Sharma A., Verma A., Luxami V., Melo J.S., D'Souza S.F.D., Tejo Prakash N., Prakash R. 2013. A New <sup>1</sup>H NMR based derivation for quantification of alkyl esters generated using biocatalysis. *Energy and Fuels*. 27. 2660-2664.
4. Gandhi U.H., Tejo Prakash N., Prabhu K.S. 2013. Selenoproteins and their role in oxidative stress and inflammation. *Current Chemical Biology*. 7. 65-73.
5. Aulakh S.S, Tejo Prakash N., Prakash R. 2013. Transesterification of triglycerides by dried biomass of *Aspergillus* sp. *Journal of Oleo Science*. 62. 297-303.
6. Bhatia P., Aureli F., D'Amato M., Prakash R., Cameotra S.S., Tejo Prakash N., Cubadda F. 2013. Selenium bioaccessibility and speciation in biofortified *Pleurotus* mushrooms grown on selenium-rich agricultural residues. *Food Chemistry*. 140. 225-230.
7. Bhatia P., Prakash R., Tejo Prakash N. 2013 Selenium uptake by edible oyster mushrooms (*Pleurotus* sp.) from selenium-hyperaccumulated agricultural residues. *Journal of Nutritional Science and Vitaminology*. 59. 69-72.
8. Kunal, Rajor A., Siddique R. 2013. Biological treatment of alkaline cement kiln dust by using alkali tolerant bacteria. *Journal of Pure and Applied Microbiology*. 7. 1933-1942.
9. Kaur G., Siddique R., Rajor A. 2013 Influence of Fungus on Properties of Concrete Made With Waste Foundry Sand. *Journal of Materials in Civil Engineering*. 25. 484-490.
10. Kaur G., Siddique R., Rajor A. 2013. Micro- Structural and Metal Leachate Analysis of Concrete Made With Fungal Treated Waste Foundry Sand. *Construction and Building Materials*. 38. 94-100.
11. Singh R., Ahlawat O.P., Rajor A. 2013. Potential of spent substrate of *Pleurotus sajor-caju* for Methyl violet 2B decolorization. *Journal of Pure and Applied Microbiology*. 7. 1099-1106.
12. Patel S.K., Rajor A., Jain B.P., Patel P. 2013. Performance Evaluation of Effluent Treatment Plant of Textile Wet Processing Industry: A Case Study of Narol Textile Cluster, Ahmedabad, Gujarat. *International Journal of Engineering Science and Innovative Technology*. 2. 290-296.
13. Rajor A., Kunal. 2013. Absorption of chromium and nickel from aqueous solution by bacteria isolated from electroplating unit effluent. *Indian Journal of Environment Protection*. 33. 213-221.
14. Gupta A., Dhir A. 2013. Estimation of Horizontal Pollution Potential by Calculating Impact Area for Patiala, Punjab Using Wind Data. *International Journal of Innovative Research in Science, Engineering and Technology*. 2. 2271-2279.
15. Verma A., Kaur H., Dixit D. 2013. Photocatalytic, sonolytic and sonophotocatalytic degradation of 4-chloro-2-nitro phenol. *Archives of Environmental Protection*. 39. 65-76.
16. Verma A., Sheorn M., Toor A.P. 2013. Titanium dioxide mediated photocatalytic degradation of malathion in aqueous phase. *Indian Journal of Chemical Technology*. 20. 46-51.
17. Verma A., Debnath A., Singh G. 2013. Degradation of Reactive Black 5 along with Dilution of RO Reject Water using Photocatalysis. *Research Journal of chemistry and Environment*. 17. 32-37.
18. Sandeep, S., Mahla, S.K, Bhath, G.S., 2013, Experimental studies on the utilization of oxygenated additive dibutyl mealate in CI engine, *Mechanica Confab*, 2, 1-10.

19. Abhishek Gupta, **Amit Dhir**, Estimation of Horizontal Pollution Potential by Calculating Impact Area for Patiala, Punjab Using Wind Data, *International Journal of Innovative Research in Science, Engineering and Technology*, 2(6), 2271-2279
20. Rahil Changotra, Abhishek Gupta, **Amit Dhir**, Assessment of the impacts of emissions from point source on ambient air quality using dispersion modeling technique, *S & T Review, An international Journal of Science and Technology*, 2(2), 47-53.

## 2012

1. Aureli F., Ouerdane L., Bierla K., Szpunar J., Tejo Prakash N., Cubadda F. 2012. Identification of selenosugars and other low-molecular weight selenium metabolites in high-selenium cereal crops. *Metallomics*. 4. 968-978.
2. Jaiswal S., Prakash R., Acharya R., Reddy A.V.R., Tejo Prakash N. 2012. Selenium content in seed, oil and oil cake of Se hyperaccumulated Brassica juncea (Indian Mustard) cultivated in seleniferous region of India. *Food Chemistry*. 134. 401-404.
3. Jaiswal S., Prakash R., Acharya R., Nathaniel T.N., Reddy A.V.R., Tejo Prakash N. 2012. Bioaccessibility of selenium from Se rich food grains of seleniferous region of Punjab, India as analyzed by Instrumental and Chemical NAA. *CyTA Journal of Food*. 10. 160-164.
4. Gupta S., Goyal R., Nirwan J., Cameotra S.S., Tejo Prakash N. 2012. Biosequestration, transformation and volatilization of mercury by *Lysinibacillus fusiformis* isolated from Industrial effluent. *Journal of Microbiology and Biotechnology*. 22. 684-689.
5. Singh M., Tejo Prakash N. 2012. Characterisation of phosphate solubilising bacteria in sandy loam soil under chickpea cropping system. *Indian Journal of Microbiology*. 52. 167-173.
6. Chahal N., Siddique R., Rajor A. 2012. Influence of Bacteria on the Compressive Strength, Water Absorption and Rapid Chloride Permeability of Concrete Incorporating Silica Fume. *Construction and Building Materials*. 37. 645-651.
7. Singh R., Ahlawat O.P., Rajor A. 2012. Identification of the potential of microbial combinations obtained from spent mushroom cultivation substrates for use in textile effluent decolorization. *Bioresource Technology*. 125. 217-225.
8. Kharub M., Rajor A., Mittal S.K. 2012. Fly-ash sewage sludge mixture as a barrier of heavy metal leaching. *Research Journal of Chemistry and Environment*. 16. 22-27.
9. Kharub M., Rajor A., Mittal S.K. 2012. Assessment of total coliform removal and leaching of metal ions from sewage sludge-fly ash mixtures at different pH and washing conditions. *African Journal of Biotechnology*. 11. 9612-9618.
10. Rajor A., Mehta R., Kunal. 2012. An overview on characterization, utilization and leachate analysis of biomedical waste incinerator ash. *Journal of Environmental Management*. 108. 36-41.
11. Kunal, Siddique R., Rajor A. 2012. Use of cement kiln dust in cement concrete and its leachate characteristics. *Resources, Conservation and Recycling*. 61. 59-68.
12. Kaur G., Siddique R., Rajor A. 2012. Properties of concrete containing fungal treated waste foundry sand. *Construction and Building Materials*. 29. 82-87.
13. Chahal N., Siddique R., Rajor A. 2012. Influence of bacteria on the compressive strength, water absorption and rapid chloride permeability of fly ash concrete. *Construction and Building Materials*. 28. 351-356.
14. Dhir A., Tejo Prakash N., Sud D. 2012. Coupling of solar assisted advanced oxidative and biological treatment for degradation of agro-residue based soda bleaching effluent. *Environmental Science and Pollution Research*. 19. 3906-3913.
15. Dhir A., Tejo Prakash N., Sud D. 2012. Comparative studies on TiO<sub>2</sub>/ ZnO photocatalyzed degradation of 4-chlorocatechol and bleach mill effluents. *Desalination and Water Treatment*. 46. 196-204.
16. Dhir A., Ram C. 2012. Design of an anaerobic digester for wastewater treatment. *International Journal of Advanced Research in Engineering and Applied Sciences*. 1. 56-66.
17. Dhir A., Sharma S., Sud D., Ram C. 2012. Studies on decolourization and COD reduction of dye effluent using advanced oxidation processes. *Elixir Chemical Engineering*. 53. 11983-11987.
18. Dhir A., Sharma S., Chopra T. 2012. Development of EIA impact matrix (with & without control measures) for up-gradation of existing two-lane carriageway to four lane divided carriageway between km 0.0 to 50.700 km (section-Zirakpur to Patiala) of NH-64 with flexible and concrete pavements. *Journal of Engineering Science and Management*. 2. 151-155.
19. Verma A., Poonam, Dixit D. 2012. Titanium dioxide mediated photocatalytic degradation of chlorpyrifos in aqueous phase. *International Journal of Environmental Sciences*. 3. 743-755.

20. Sithta, A., Kumar, A., Mahla, S.K. Utilization of argemone oil biodiesel in commercial Di-Ci engine, *International Journal on Emerging Technologies*, 3: 19-24.
21. Mahla, S.K., Birdi, A. 2012, Performance and emission characteristics of different blends of linseed methyl ester on diesel engine, *International Journal on Emerging Technologies* 3: 55-59
22. Gomasta, S., Mahla, S.K. 2012, An experimental investigation of ethanol blended diesel fuel on engine performance and emission of a diesel engine, *International Journal on Emerging Technologies* 3: 74-79
23. Mahla, S.K., Kumar, S., Shergill, H., Kumar, A. 2012, Study the performance characteristics of acetylene gas in dual fuel engine with diethyl ether blends, *International Journal on Emerging Technologies*, 3: 80-83
24. Singh, S., Mahla, S.K. Utilization of ethanol and rice bran methyl ester in a single cylinder CI diesel Engine, *International Journal of Emerging Technology and Advanced Engineering*, 2: 147-152.
25. Singh, S., Mahla, S.K. Emerging scope for biodiesel for energy security and environmental protection, *International Journal of Emerging Technology and Advanced Engineering*, 2, 157-162
26. Mahla, S.K., Gomasta, S. Experimental investigation on compression ignition engine fuelled by biodiesel blended with diesel, *Global Journal of Researches in Engineering*, 12, 27-32
27. Singh, S., Walia, V., Mahla, S.K. Engine exhaust pressure control system, *International Journal of Management, IT and Engineering*, 2, 331-338.

#### 2011

1. Bhatti M.S., Reddy A.S., Kalia R.K., Thukral A.K. 2011. Modeling and optimization of voltage and treatment time for electrocoagulation removal of hexavalent chromium. *Desalination*. 269. 157-162.
2. Bhatti M.S., Kapoor D., Kalia R.K., Reddy A.S., Thukral A.K. 2011. RSM and ANN modeling for electrocoagulation of copper from simulated wastewater: Multi objective optimization using generic algorithm approach. *Desalination*. 274. 74-80.
3. Singh G., Bhunia H., Rajor A., Chaudhary V. 2011. Thermal properties and degradation characteristics of polylactide, linear low density polyethylene, and their blends. *Polymer Bulletin*. 66. 939-953.
4. Chahal N., Rajor A., Siddique R. 2011. Calcium carbonate precipitation by different bacterial strains. *African Journal of Biotechnology*. 10. 8359-8372.
5. Dhir A., Tejo Prakash N., Sud D. 2011. Studies on coupled biological and photochemical treatment of soda pulp bleaching effluents from agro residue based pulp and paper mill. *Journal of Chemical Technology and Biotechnology*. 86. 1508-1513.
6. Bansal P., Dhir A., Tejo Prakash N., D Sud. 2011. Environmental remediation of wastewater containing azo dye with a heterostructured nano photocatalyst. *Indian Journal of Chemistry*. 50/A. 991-995.

#### 2010

1. Singh M., Khanna S., Tejo Prakash N. 2010. Influence of cellulolytic bacteria augmentation on organic carbon and available phosphorus in sandy loam soil under cultivation. *Journal of Agricultural Science*. 2. 137-145.
2. Tejo Prakash N., Sharma N., Prakash R., Acharya R. 2010. Removal of selenium from Se enriched natural soils by a consortium of Bacillus isolates. *Bulletin of Environmental Contamination and Toxicology*. 84. 214-218.
3. Tejo Prakash N., Sharma N., Prakash R., Nathaniel N., Acharya R., Reddy A.V.R. 2010. Selenium fortification and pro/anti-oxidant responses in *Allium cepa* (onion plant) cultivated in Se supplemented soils. *Experimental Agriculture*. 46. 531-540.
4. Cubadda F., Aureli A., Ciardullo S., D'Amato M., Raggi A., Acharya R., Reddy A.V.R., Tejo Prakash N. 2010. Changes in selenium speciation associated with increasing tissue concentration of selenium in wheat grain. *Journal of Agricultural and Food Chemistry*. 58. 2295-2301.
5. Gupta S., Prakash R., Pearce C.I., Pattrick R.A.D., Hery M., Lloyd J.R., Tejo Prakash N. 2010. Selenium mobilization by *Pseudomonas aeruginosa* (SNT-SG1) isolated from seleniferous soils from India. *Geomicrobiology Journal*. 27. 35-42.
6. Mathur C., Prakash R., Ali A., Kaur J., Cameotra S.S., Tejo Prakash N. 2010. Emulsification and tranesterification of oil by a soil borne fungus, *Syncephalastrum racemosum*. *Defence Science Journal*. 60. 251-254
7. Siddique R., Kaur G., Rajor A. 2010. Waste foundry sand and its leachate characteristics. *Resources, Conservation and Recycling*. 54. 1027-1036.
8. Singh G., Bhunia H., Rajor A., Jana R.N., Chaudhary V. 2010. Mechanical properties and morphology of polylactide linear low density polyethylene and their blends. *Journal of Applied Polymer Science*. 118. 496-502.
9. Mahla, S.K., Das, L.M., Babu, M.K.G. Effect of EGR on performance and emission characteristics of natural gas fuelled Diesel Engine, *JJMIE* 4, 523-530

#### 2009



1. Bhatti M.S., Reddy A.S., Thukral A.K. 2009. Electrocoagulation removal of Cr(VI) from simulated wastewater using response surface methodology. *Journal of Hazardous Material*. 172. 839-846.
2. Tejo Prakash N., Sharma N., Prakash R., Raina K.K., Fellowes J., Pearce C.I., Lloyd J.R., Patrick R.A.D. 2009. Aerobic microbial manufacture of nanoscale selenium: Exploiting nature's bionomineralization potential. *Biotechnology Letters*. 31. 1857-1862.
3. Vidyalakshmi C., Tejo Prakash N. 2009. In-situ bioremediation of chlorpyrifos in cotton fields: Possible role of plant-microbe interactions. *Journal of Pure and Applied Microbiology*. 3. 543-550.
4. Singh M., Tejo Prakash N., Khanna S. 2009. Fingerprinting of cellulose degrading bacteria from agricultural soils. *Journal of Pure and Applied Microbiology*. 3. 143-150.
5. Sekhon K.K., Tejo Prakash N., Khanna S. 2009. Cloning, expression and genetic regulation of a biosurfactant gene for bioremediation of hydrophobic chemical compounds. *Journal of Pure and Applied Microbiology*. 3. 49-58.
6. Sharma N., Prakash R., Srivastava A., Sadana U.S., Acharya R., Tejo Prakash N., Reddy A.V.R. 2009. Profile of selenium in soil and crops in seleniferous area of Punjab, India by neutron activation analysis. *Journal of Radioanalytical and Nuclear Chemistry*. 281. 59-62.
7. Sekhon K.K., Tejo Prakash N., Khanna S. 2009. Cloning and expression of a biosurfactant gene from endosulfan degrading *Bacillus* sp. *Biotechnology*. 8, 235-241.
8. Rajor A., Singh R. 2009. Colour removal of distillery waste by *Saccharomyces* in combination with fungal strains. *Asian journal of chemistry*. 21, 7032-7040
9. Dubey S.K., Kumar A., Srivastava P. 2009. Solar photo-catalytic treatment of textile wastewater for biodegradability enhancement. *International Journal of Environmental Engineering*. 1, 152-164.

#### SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

- Kalsi, N.S., Kiran, Ravi and Vaidya, S.C. (2009). Enhancing e-Governance Initiatives for Better Governance in India *International Review of Business Research Papers*, 5 (1), 212-229.
- Kiran, Ravi, Sharma Anupam and Mittal, K.C, (2009) Attitudes, Preferences and Profile of Online Buyers in India, *South Asian Journal of Business Management*, 15 (3), 55-73.
- Walia, Nidhi and Kiran, Ravi (2009), An Exploratory Study of Mutual Funds Services in Punjab, *Business Perspective*, Volume 11, (1), 1-12.
- Walia, Nidhi and Kiran, Ravi (2009), An Analysis of Investors Risk Perception towards Mutual Funds Services, *International Journal of Business and Management*, 4 (5), 106-120.
- Kiran, Ravi and Misra, Sunita, (2009), Changing Pragmatics of Indian Pharmaceutical Industry in Pre & Post TRIPS period, *International Journal of Business & Management*, 4(9), 206-220.
- Khushdeep Dharni , Kiran, Ravi & Dr R.K. Sharma, (2009) Use of Computer-Based Applications: A Study at Different Levels of Management *The Journal Management Research*, 8 (7), 45-55.
- Khushdeep Dharni, R.K. Sharma and Kiran, Ravi (2009), Information systems in the Indian manufacturing sector: extent of use and support for managerial roles, *International Journal of Business Information System*, 4(6), 673-689.
- Walia, Nidhi and Kiran, Ravi (2009), Portfolio Diversification and Financial Performance of Mutual funds in India, *Interdisciplinary Journal of Contemporary Research in Business*, 1(5), 68-86.
- Kiran, Ravi and Misra, Sunita, Patenting in Pharmaceutical industry of India: Changing Perspectives in the post- TRIPs period, *Oorja*, 6 (1), 38-47.
- Kiran, Ravi and Misra, Sunita, (2009), Performance of the Indian Pharmaceutical Industry in Post-TRIPS Period: A Firm Level Analysis, *International Review of Business Research Papers*, 5(6), 148-160.
- Kiran, Ravi & Misra, Sunita, (2010) New IPR Regime and Challenges of the Small Pharma Industry, *Interdisciplinary Journal of Contemporary Research in Business*, 1(10), 42-60.
- Kiran, Ravi and Jain, Vijay (2009), Technology Management Strategies: A Post TRIPS Study of Punjab Manufacturing, *International Review of Business Research Papers* 6(1), 382-391.
- Kiran, Ravi, Anil K. Verma and Parul Dharmani, (2010), Enhancing the learning of students of higher education through innovative communication modes of knowledge: Educators Suort Model, *Global Journal of Management and Business Research*, 10(2), 164-170.
- Walia, Nidhi and Kiran, Ravi (2010), Efficient Market Hypothesis, Price volatility and performance of Mutual Funds *Efficient Market Hypothesis, Price volatility and performance of Mutual Funds*, *Global Journal of Management and Business Research*, 10(2), 42-50.

- Walia, Nidhi & Kiran, Ravi (2010), Market volatility, Diversification and Proactive Risk Management for Mutual funds, *Global Business and Management Research: An International journal*, 2 (2), 198-207.
- Kiran, Ravi and Deepika (2010), E-Business in India: changing scenario and future prospects OORJA, *Journal of Management & IT*, 8 (1), 32-37.
- Manpreet Kaur and Kiran, Ravi (2010), New Policy Regime and Productivity of Manufacturing Sector: A Comparison of India and Punjab, *International Journal of Economics*, 4(2), 267-287.
- Kiran, Ravi and Jyoti Bansal (2010), Productivity and Its Determinants For The Organised Manufacturing Sector of Punjab, *Apeejay Journal of Management and Technology* 5, (2), 105-115.
- Kiran, Ravi & Misra, Sunita (2011), Research and Development, Exports and Patenting in the Indian Pharmaceutical Industry: a Post TRIPS Analysis, *Eurasian of Business and Economics* 2011, 4 (7), 53-67.
- Kiran, Ravi & Sharma, Anupam (2011), Corporate Social Responsibility and Management Education: Changing Perception and Perspectives, *Global Journal of Management and Business Research*, 11(6), 56-67.
- Kiran, Ravi & Sharma, Anupam (2011), Corporate Social Responsibility: A Corporate Vision, *International journal of Contemporary Business Studies*, 2(3), 58-68.
- Kiran, Ravi & Sharma, Anupam (2011), Corporate Social Responsibility: A Corporate Strategy for New Business Opportunities, *Journal of International Business Ethics*, 4(1), 10-17.
- Kiran, Ravi & Swaraj Raj (2011), Buddhist way of life and environmental concerns, *Journal of Language and Culture* 2, (5), 67-71.
- Kiran, Ravi & Deepika (2011), Consumer Preferences towards Emerging Retail formats in India: An Exploratory Study, *Res Manageria*, 2(2), 27-39.
- Walia, Nidhi and Kiran, R. (2011), Perceptual gap and anatomy of investment risk decision, accepted for Publication in *African journal of Business Management African Journal of Business Management* 5(17), 7296-7305.
- Walia, Nidhi and Kiran, R. (2011), A Comparative Analysis of Performance, Investment Styles, Risk and Return associated with Indian Mutual funds, *The Journal of Index Investing*, 2(2), 86-95.
- Goel, Shivani, Kiran, Ravi and Garg, Deepak (2011) Impact of Cloud Computing on ERP implementations in Higher Education, *International Journal of Advanced Computer Science and Applications (IJACSA)*, 2,(6), 146-148.
- Walia, Nidhi and Kiran, R. (2012), Understanding the risk anatomy of experienced mutual fund investors, *Journal of Behavioral Finance*, 13 (2), 119-125.
- Kiran, Ravi & Deepika (2011), A Strategic Framework for Consumer Preferences towards Emerging Retail Formats, *Journal of Emerging Knowledge on Emerging Markets*: 3(1), 436- 453.
- Deepika & Kiran, R. (2012), Emerging Retail Formats and its attributes: An insight to convenient shopping, *Global Journal of Management and Business Research* (2012) 12 (2), 63-71.
- Deepika & Kiran, R. (2012), Trendy shopping replacing traditional format preferences, *African journal of Business Management, African Journal of Business Management*, Vol.6 (11), 4196-4207.
- Deepika & Kiran, R. (2012), Organized retail in India - Drivers facilitator and SWOT analysis, *Asian Journal of Management Research*, 2 (1), 264-273.
- Kiran, R. & Sharma, Anupam (2011) Corporate Social Responsibility and Management Education: Changing Perception and Perspectives, *Global Journal of Management and Business Research*, 11(6), 56-67.
- Kiran , R. & Rohini Inder Chopra, (2012) Price Performance of IPOS in Indian Stock Market, *Euro Economica*, 30, (4), 73-97.
- Goel, S., Kiran, R. and Garg, D. (2011), A framework for efficient enterprise resource planning (ERP) implementation in technical educational institutions, *African Journal of business Management*, 5 (34), 13197-13204.
- Kiran R. & Prabhjot Kaur, (2011) Impact of Recession on Various Sectors of Indian Economy, *Business & Social Science Review*, 1 (1), 5-20.
- Aggarwal, Parul, D. Kiran, Ravi, Anil K. Verma (2011), Enhancing Curriculum and Research in Higher Education with a Strategic Use of Knowledge Management, *Global Journal of Management and Business Research*, 11 (12), 68-83.
- Aggarwal, Parul, D. Kiran, Ravi, Anil K. Verma (2011) Knowledge sharing for enhancing learning environment in institutions of higher technical education, *African Journal of Business Management*, 6916), 5533-5542.

- Goyal, D. P., Kiran R. & Rahul Hakku, (2012), Role of Knowledge Sharing and Knowledge Management Culture on Corporate Performance: A Theoretical Perspective, *IIMS Journal of Management Sciences*, 3(1), 34-46.
- Jain Vijay & Kiran R (2011), A Post TRIPS Analysis of studies on Technology Management Strategies by Indian Manufacturing for Global Competitiveness, *Business & Social Science Review*, 1(3), 32- 47.
- Jain, Vijay & Kiran, R. (2012), Technology Management Strategies and Small and Medium Enterprises of Punjab Manufacturing, *Journal of Intellectual Property Rights*, 17, (1), 64-72.
- Kiran, R. & Jain, Vijay (2012), Enhancing innovation and intellectual property culture in manufacturing small and medium enterprises, *African journal of Business Management*, 6 (4), 1234-1243.
- Sharma Anupam & Kiran, R, (2012) Corporate social responsibility in changing markets: New mechanisms and newer initiatives, *African journal of Business Management*, *African Journal of Business Management*, 6(16), 5479-5490.
- Rahul Hakku, Kiran R & Goyal, D. P. (2012), Success of Marketing Information System (MKIS) Model: Analysis of Manufacturing Small and Medium Enterprises (SMES), *Middle-East Journal of Scientific Research* 11 (6), 777-786.
- Deepika & Kiran, R. (2012), Emerging Trends of Organized Retailing in India: A Shared Vision of Consumers and Retailers Perspective, *Middle-East Journal of Scientific Research*, 11 (4), 481-490.
- Sharma Anupam & Kiran, R. (2012), Corporate social responsibility: A passion of large organizations or a commitment to the society, *African Journal of Business Management* 6(22), 6696-6708.
- Goel, S., Kiran, R. and Garg, D. (2012). Vulnerability Management for an Enterprise Resource Planning System, *International Journal of Computer Applications*, 53 (4), 19-22.
- Mishra, Sunita & Kiran, R. (2012). Perception of the Indian Pharmaceutical Firms towards stronger Product Patent Regime: A Case Study of North West Region, *Int. J. of Intellectual Property Management* 5(3/4), 266-282.
- Sharma Anupam & Kiran, R. (2012). Corporate Social Responsibility Initiatives of Major Companies of India with Focus on Health, Education and Environment. *African Journal of Basic & Applied Sciences*, 4 (3), 95-105.
- Aggarwal, Parul, D. Kiran, Ravi, Anil K. Verma (2012), Empowering educators with knowledge management for the development of state-of-art of the curriculum. *African Journal of Business Management* Vol.6 (43), 10750-10765.
- Aggarwal, Parul, D. Kiran, Ravi, Anil K. Verma (2012). Key Features of Research Portal for Stimulating Research in Institutions of Higher Technical Education, *Eurasian Journal of Educational Research* 48 (2), 155-174.
- Aggarwal, Parul, D. Kiran, Ravi, Anil K. Verma (2012). Knowledge sharing for stimulating learning environment in institutions of higher technical education. *Technics Technology Education Management*, 7 (4), 1681-1691.
- Kiran, Ravi and Ridhima Sharma (2012) Customer Relationship strategies of Public and Private sector banks: An Insight, *International journal of Business Management & Research*, 2(2), 67-72.
- Rahul Hakku, Kiran R. & Goyal, D. P. (2013), Role of marketing information system (MkIS) for the organizational culture and its effectiveness, *African Journal of Business Management* . 7(3), 172-177.
- Kiran, Ravi, Aggarwal, Parul, D. ,Verma, Anil K. (2013). Knowledge Management: Role of Thought leaders and Junior Academia in Enhancing Research and Curriculum in Institutions of Higher Technical Education, *Sage open*, April-June, 1-13. doi: 10.1177/2158244013484915.
- Sharma Anupam and Kiran, R. (2013). Corporate Social Responsibility: Driving Forces and Challenges, *International Journal of Business Research and Development*, 2 (1), 18-27.
- Sharna, Anurag, Kiran, Ravi and Singh Mandeep (2013) Meditative Techniques for Human Resource Development: A Theoretical Perspective, *PCMA Journal of Business*, 4 (1 & 2), 177-192.
- Kiran, Ravi and Ridhima Sharma (2013) Strategies for Stimulating Customer Relationship: A Study of Some Public and Private Sector Banks, *Journal of Distribution Science* 11(3), 31-37.
- Sharma Anupam and Kiran, R. (2012). Corporate Social Responsibilities-Automobile, FMCG and IT Sectors in North West India, *The Indian Journal of Social Work*, 73 (4), 519-536.
- Goel, Shivani, Kiran, R. and Garg, D. (2012). Predictors for User Satisfaction in Enterprise Resource Planning Implementation in Technical Educational Institutions. *INFORMATION An International Interdisciplinary Journal*. 16 (5), 2885-2894.

- Hakhu,R., Kiran, R., Goyal, D.P., (2013). Primary Characteristics for Marketing Information System (MkIS) for Small and Medium Enterprises (SMEs) in Punjab,Australian Journal of Basic and Applied Sciences, 7(7): 539-544.
- Kalsi, N. S. and Kiran, Ravi (2013) E-governance success factors: An analysis of e-governance initiatives of ten major states of India, International journal of Public Sector Management, 26 ( 4), 320-336.
- Kiran, Ravi (2014) Is the Slowdown of Indian Economy Really a Phase of Recession? Anveshanam- The Journal of Management Vol. 2, No. 1, pp 1-11.
- Jain, Vijay and Kiran, Ravi (2014) Stronger IPR Regime:A Strategic Need in Punjab, Anveshanam- The Journal of Management Vol. 2, No. 1, pp 17-26.
- Argheesh Bhanot & Kiran, Ravi (2013) Patent or Perish: Is the Indian Pharmaceutical Sector Geared up for the New Stronger Patenting Regime? Australian Journal of Basic and Applied Sciences, 7(9): 245-253.
- Rahul Hakku, Kiran R. & Goyal, D. P. (2013) Success of Marketing Information System Model for SMEs of Punjab: Validation of Survey Based Results and Case Study Analysis, Vol. 103, pp 870-879.
- Nandkeolyar, Dilip; Pandey, Neeraj; Kiran, Ravi and Kumar, Shailendra (2013) "Madhu Automobiles: Managing Marketing Strategy for Success," The Case Centre, UK, R. No.513-114-1, pp. 1-10.
- Nandkeolyar, Dilip; Pandey, Neeraj; Kiran, Ravi and Kumar, Shailendra (2013) "Managing Business Planning and Growth: A Case of Small Scale Service Business Enterprise (SSSBE) in India", R. No.513-085-1, pp. 1-15.
- Apurva Bakshi and Kiran Ravi (2014) Copyright Voilations, "inspirations" and adaptation of Indian Films: A Case for Cinema as Visual Anthropology, Anthropologist, 18 (1), 211-216.
- Apurva Bakshi and Kiran, Ravi (2014), 'Copyright violations in Indian cinema: why Barfi! denotes all that's wrong with Bollywood, 'Queen Mary Journal of Intellectual Property, Vol. 4 No. 4, pp. 310-321, 18(1): 211-216.
- Kaur, Navneet and Kiran, Ravi, 'E-Banking Service Quality and Customer Loyalty: Changing Dynamics of Public, Private and Foreign Bank Consumers in India,' accepted for Publication in Global Business and Management Research: An International Journal.
- Kaur, Navneet and Kiran, Ravi (2014), 'E-Delivery Channels and Banking Performance in India: A Pragmatic Approach , Global Journals Inc. (US) Global Journal of Management and Business Research: Finance Volume 14 Issue 4, pp.
- Kaur, Navneet and Kiran, Ravi (2014), 'Customer Satisfaction and Customer Loyalty in E-Banking in India: The Intricacies of Relationship,' IOSR Journal in Business and Management (IOSR-JBM), Vol.16, Issue 9 September 2014.
- Kalsi, Namrita and and Kiran, Ravi (2014), ' Greater Mohali Region: Geopolitical Impact on Urban Anthropology to Emerge as a Significant Tri-city Entity, J Hum Ecol, 47(2): 125-137.
- Bakshi, Apurva and Kiran Ravi (2014) Copyright Voilations, "inspirations" and adaptation of Indian Films: A Case for Cinema as Visual Anthropology, Anthropologist, 18 (1), 211-216.
- Bakshi, Apurva and Kiran Ravi (2014) Coping with Copying Copyright Violations in Literary Works and Films, Language in India 14 (8), 1-9.
- Kiran, Ravi. TRIPS and Its Implications on Indian Pharmaceutical Industry: A firm wise analysis of north-west India. Journal of Advanced Management sciences. 4(2);86-91.
- Kaur, Gagandeep, Pandey, Neeraj, Kiran, Ravi & Kumar, Shailendra (2015) Employee Attrition in ITeS Call Centers in Selected Clusters of North India: Need to have a Relook, Technics Technology Education Management, 10 (1) ;124-135.
- Santha Kumari & Ahuja,S.(2010)Video Viewing and Cognitive Development in Preadolescents. Social Science Computer Review Volume Volume 28, No.2,11- 17
- Ahuja, S & Santha Kumari(2009). Prolonged video viewing and emotional intelligence: an experimental investigation among preadolescents. Europe's Journal of Psychology www.ejop.org
- Kaur,Gurvinder&Lomash,Hitashi (2015) Do public and private sector employees differ in the empowerment perceptions?A comparative study.International Journal Of Social Science and Humanities.5(11), 907-911.
- Kaur Gurvinder & Sharma, Manoj (2012).Employees'perspective on workplace empowerment:A study of foreign banks in India.African Journal of Business Management.6(21),6415-6419.
- Sharma,Manoj & Kaur, Gurvinder (2011).Workplace empowerment and organizational effectiveness:An empirical investigation of the Indian banking sector.Academy of Banking Studies Journal. 10(2),105-120.
- Bakshi, A. (2012), Decoding the Source Code of Language: Etymological Premises in the English Language, Language in India,12, 1-4.

- Bakshi, A. (2012), Operational Methods and Critical to Quality (CTQ) Parameters in the Business Model of Mumbai Dabbawallahs: A Case Study, *Global Journal of Management Science and Technology*, 1, 28-29.
- Bakshi, A. (2012), Deciphering the Nature of Copyright: An Exploration of Indian Copyright Law, *Research Link Journal*, XI (4), 123-124.
- Bakshi, A., Kiran, R. (2014), Copyright Violations, 'Inspirations' and Adaptation in Indian Films: A Case for Cinema as Visual Anthropology?, *Anthropologist*, 18(1), 211-216.
- Bakshi, A., Kiran, R. (2014), State of Copyright in Indian Cinema: Why Barfi symbolizes all that's wrong with Bollywood, *Queen Mary Journal of Intellectual Property*, 4(4), 310-321.
- Bakshi, A., Kiran, R. (2014), Coping with copying: Copyright Violations in Literary Works and Films, *Language in India*, 14, 1-9.
- Sah, Ashnarayan.(2011).Behaviour of Stock Return Volatility in India: A Study in the Context of the US Sub-Prime Crisis. *Decision*, 38 (3), 26-38.
- Sah, A.N., & Pandey, K.K.(2011). Hedging Effectiveness of Index Futures Contract: The Case of S&P CNX Nifty. *Global Journal of Finance an Sharma Rakesh & Kumar Kuldeep (2011). Analysing Risk and Performance of Selected BSE listed Indian Cement Companies. ELK Journal of Finance and Risk Management July, 2011.*
- Sharma Rakesh & Kumar Kuldeep (2011). An Insight to Finance performance Appraisal of Automobile Industry with special reference to some selected Indian Companies. *I-Manager's Journal on Management, Tamilnadu, June 2011.*
- Sharma Rakesh & Pahwa M.S.(2012). An Insight to Finance performance Appraisal of Real Estate Sector with special reference to some selected Indian Companies.*Amity Business Journal , Lucknow, September-2012*
- Sharma Rakesh & Yadav R.K.(2012). Problems and Prospects of Women Employees in Indian BPOs" published in *IUP journal "Entrepreneurship Development" ,VOL-IX NO.2 JUNE 2012*
- Sharma Rakesh & Yadav R.K.(2012). A Study of Health Problems of Working Women in BPO sector in Delhi and NCR" published in *IMS journal "IMS Manthan-2012",VOL.VII,ISSUE-I,JUNE 2012*
- Sharma Rakesh & Yadav R.K (2012). Satisfaction level of Women Employees in BPO Sector: A study with Special Reference to Delhi & National Capital Region. *CDSM journal Enqueter,VOL-2, ISSUE NO.1*
- Sharma Rakesh & Yadav R.K (2012). Women Turnover in Indian BPOs: A study with Special Reference to Delhi & National Capital Region. *International Journal of JIMS PABHANDHGYAN,VOL.I, ISSUE-I.*
- Sharma Rakesh & Yadav R.K (2012). Factors motivating women employees to join Indian BPOS a study of some selected BPOS in Delhi & NCR. *The IIS University Journal of Commerce & Management.*
- Sharma R. K. & Kaur Lakhwinder (2015). HUMAN DEVELOPMENT AND ECONOMIC GROWTH IN INDIA: AN EMPIRICAL STUDY WITH SPECIAL REFERENCE TO PUNJAB. *SAARJ Journal of Banking Insurance.*
- Sharma R. K. & Kaur Lakhwinder (2015).Relationships between Economic Growth and Human Development : An Empirical Study with Special Reference to Haryana. *IPE journal of Managementd Management,3(1), 77-89.*
- Vij J., Lomash, H. "Examining 'OCEAN' Personality Differences in High and Low Academic Procrastinators" *Indian Journal of Social Science Researchers*,Vol 10, No. 2, oct-2013,pp-90-96.
- Vij J., Lomash, H. "Role of Motivation in Academic Procrastination" *International Journal of Scientific and Engineering Research*, Vol5, Issue 8, August-2014
- Sharma,S., Lomash, H. Bawa S "Who regulates ethics in the virtual world?" *Science and Engineering Ethics (Accepted January, 2014)*
- Mukesh Kumar, Ritika Goyal,Hitaishi Khandal, Barkha Khilwani,Shelly Gupta, Hitashi Lomash,Moushumi Ghosh and Abhijit Ganguli "perception and attitudes of Indian consumers to probiotic foods" *current topics in nutraceutical research vol. 8, no. 4 pp. Xx-xx, 2010.*
- Lomash, H. Rastogi, R. "Cultutre based counseling for AIDS/HIV patients" *Jl of Community and guidance Research*, July 2006
- Bose, S.C. & Kiran, R. (2014). Identification of success factors for business incubation in agribusiness for achieving higher productivity. *Productivity*, vol.55, No. 1, Page 64-69.

SCHOOL OF MATHEMATICS AND COMPUTER APPLICATIONS

List of research publications in SCI Journals year 2014-15

| S.N. | Title of the paper   | Name of Journal with volume, page nos., year   | Name of the Author                           | Impact factor and Citation Index |
|------|--|--|--|----------------------------------|
| 1.   | Efficient Feature Extraction Techniques for Offline Handwritten Gurmukhi Character Recognition   | National Academy Science Letters, 37(4), 381-91, 2014  | Munish Kumar, R. K. Sharma and M. K. Jindal  | 0.24                             |
| 2.   | A Novel Hierarchical Technique for Offline Handwritten Gurmukhi Character Recognition  | National Academy Science Letters, 37(6), 567-72, 2014  | Munish Kumar, R. K. Sharma and M. K. Jindal  | 0.24                             |
| 3.   | Symmetry Analysis and Some Solutions of Gowdy Equation   | Romanian Journal of Physics 60 (2015) 15 – 21  | Rajeev, R.K. Gupta and S. S. Bhatia          | 0.745                            |
| 4.   | Exact and Numerical Solutions of Coupled Short Pulse Equation with Time Dependent Coefficients   | Nonlinear Dynamics 79 (2015) 455 – 464   | R.K. Gupta Vikas Kumar and Ram Jiware        | 2.419                            |
| 5.   | Painleve Analysis and Some Solutions of Variable Coefficients Benny Equation   | Parmana-Journal of Physics, Accepted   | Rajeev, R.K. Gupta and S. S. Bhatia          | 0.72                             |
| 6.   | Lie Symmetry Analysis and Exact Solutions for a Variable Coefficient Generalized Kuramoto-Sivashinsky Equation                         | Romanian Reports in Physics 66 (2014) 923 – 928  | Rajeev, R.K. Gupta and S. S. Bhatia          | 1.137                            |
| 7.   | Recognition of Multi-Stroke Based Online Handwritten Gurmukhi Aksharas   | Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, Online:<br><a href="http://link.springer.com/article/10.1007/s40010-014-0183-z">http://link.springer.com/article/10.1007/s40010-014-0183-z</a> , 2014 | Ravinder Kumar, R. K. Sharma and Anuj Sharma | 0                                |
| 8.   | A new class of distribution-free tests for testing ordered location parameters based on sub-samples                                    | Statistics and Probability Letters, 90 (2014) 53-59  | Anil Gaur                                    | 0.669                            |
| 9.   | A class of integer linear fractional programming problems  | Optimization, 63 (10) 1565-1581, 2014  | Vikas Sharma, Kalpana Dahiya, Vanita Verma   | 0.707                            |
| 10.  | Linear programming approach for solving fuzzy critical path problems with fuzzy parameters   | Applied Soft Computing, Vol. 21, pp. 309-319, 2014   | Parmpreet Kaur and Amit Kumar                | 2.679                            |
| 11.  | Mehar methods for fuzzy optimal solution and sensitivity analysis of fuzzy linear programming with symmetric trapezoidal fuzzy numbers | Mathematical Problems in Engineering, Vol. 2014, Article ID 697085, 8 pages, doi:10.1155/2014/697085   | Sukhpreet Kaur, Amit Kumar and S.S. Appadoo  | 1.082                            |
| 12.  | A note on "A methodology for matrix games with payoffs of triangular intuitionistic fuzzy  | Journal of Intelligent and Fuzzy Systems, Vol. 27, pp. 1689-1691, 2014   | Tina Verma and Amit Kumar                    | 0.936                            |

| S.N. | Title of the paper  | Name of Journal with volume, page nos., year                                       | Name of the Author  | Impact factor and Citation Index |
|------|---|--|---|----------------------------------|
|      | number"   |  |   |                                  |
| 13.  | Fuzzy optimal solution of fully fuzzy linear programming problems using ranking function                                    | Journal of Intelligent and Fuzzy Systems, Vol. 26, pp. 337-344, 2014               | Amit Kumar and Jagdeep Kaur                                 | 0.936                            |
| 14.  | Optimal way of selecting cities and conveyances for supplying coal in uncertain environment                                 | Sadhana - Academy Proceedings in Engineering Sciences, Vol. 39, pp. 165-187, 2014  | Amit Kumar and Amarpreet Kaur                               | 0.587                            |
| 15.  | A new method for solving single and multi-objective fuzzy minimum cost flow problems with different membership functions    | Sadhana - Academy Proceedings in Engineering Sciences, Vol. 39, pp. 189-206 , 2014 | Amit Kumar and Manjot Kaur                                  | 0.587                            |
| 16.  | A method for unbalanced transportation problems in fuzzy environment  | Sadhana - Academy Proceedings in Engineering Sciences, Vol. 39, pp. 573-581,       | Deepika Rani, T.R. Gulati and Amit Kumar                    | 0.587                            |
| 17.  | A note on the paper "A simplified novel technique for solving fully fuzzy linear programming problems"                      | Journal of Optimization Theory and Applications, Vol. 163, pp. 685-696, 2014       | Bindu Bhardwaj and Amit Kumar                               | 1.406                            |
| 18.  | An approach for analyzing the reliability of industrial system using fuzzy Kolmogorov's differential equations,             | The Arabian Journal for Science and Engineering, 40(3), 975 - 987, 2015, Springer. | Harish Garg   | 0.367                            |
| 19.  | Analyzing the behavior of an industrial system using fuzzy confidence interval based methodology                            | National Academy Science Letters, 37(4), 359 - 370, 2014, Springer                 | Harish Garg   | 0.240                            |
| 20.  | A novel approach for analyzing the behavior of industrial systems using weakest t-norm and intuitionistic fuzzy set theory, | ISA Transaction, 53, 1199 - 1208, 2014, Elsevier                                   | Harish Garg   | 2.256                            |
| 21.  | Performance and behavior analysis of repairable industrial systems using Vague Lambda-Tau methodology                       | Applied Soft Computing, 22, 323 - 338, 2014, Elsevier                              | Harish Garg   | 2.679                            |
| 22.  | Bi-objective optimization of the reliability-redundancy allocation problem for series-parallel system                       | Journal of Manufacturing Systems, 33(2), 353 - 367, 2014, Elsevier                 | Harish Garg, Monica Rani, S.P. Sharma and Yashi Vishwakarma | 1.847                            |
| 23.  | Reliability, availability and maintainability analysis of industrial systems using PSO and fuzzy approach                   | MAPAN - Journal of Metrology Society of India, 29(2), 115 - 129, 2014, Springer.   | Harish Garg   | 0.477                            |
| 24.  | An approach for analyzing the reliability of industrial systems using soft computing based technique                        | Expert systems with Applications, 41(2), 489 - 501, 2014, Elsevier.                | Harish Garg, Monica Rani and S.P. Sharma                    | 1.965                            |
| 25.  | Performance analysis of industrial systems using  | International Journal of Artificial Intelligence and                               | Harish Garg, Monica Rani and S.P. Sharma                    | 0.321                            |

| S.N. | Title of the paper   | Name of Journal with volume, page nos., year  | Name of the Author   | Impact factor and Citation Index |
|------|--|---|--|----------------------------------|
|      | artificial bee colony and fuzzy methodology  | tools, 23 (5), 1450008 (23 pages), 2014, World Scientific   |  |                                  |
| 26.  | Cost minimization of butter-oil processing plant using artificial bee colony technique   | Mathematics and Computers in Simulations, 97C, 94 - 107, 2014, Elsevier.  | Monica Rani, Harish Garg, S.P. Sharma  | 0.856                            |
| 27.  | "PUNJARPabet: A New Phonetic Alphabet for Speech Processing in the Punjabi Language  | Journal of Circuits, Systems, and Computers, WorldScientificPublishing Co.; JCSC Vol. 23, No. 5 (June 2014  | Surinder Dhanjal & Satvinder Singh Bhatia                                    | 0                                |
| 28.  | Generalized Sequence Spaces in 2-Normed Spaces Defined by Ideal and a Modulus Function,  | Accepted Annals of the Alexandru Ioan Cuza University - Mathematics, DOI: <a href="https://doi.org/10.2478/aicu-2014-0024">10.2478/aicu-2014-0024</a> , July 2014                                     | <a href="#">Sudhir Kumar<sup>1</sup> Vijay Kumar<sup>1</sup> S.S. Bhatia</a> | 0                                |
| 29.  | Generalized sequential convergence in fuzzy neighborhood spaces  | accepted for publication in National Academy Science Letters, 2014  | Pankaj Kumar, S.S. Bhatia, V. Kumar  | 0.24                             |
| 30.  | The role of screening and treatment in the transmission dynamics of HIV/AIDS and tuberculosis co-infection: a mathematical study | J Biol Phys, DOI 10.1007/s10867-014-9342-3, (Jan 2014)  | Navjot Kaur · Mini Ghosh · S. S. Bhatia                                      | 1.152                            |
| 31.  | Forecasting stock index price based on M-factors fuzzy time series and particle swarm optimization                               | International Journal of Approximate Reasoning (Elsevier),55,812-833, 2014.   | Pritpal Singh and Bhogeswar Borah  | 1.729                            |
| 32.  | UML Modeling and Validation of Object-Oriented Database for Water Bill Deposit System  | MAGNT Research Report (SCI Indexed (ISSN No.: 1444-8939), Vol 2(5), 100-104, DOI: <a href="https://doi.org/10.2478/aicu-2014-0024">dx.doi.org/14.9831/1444-8939.2014/2-5/MAGNT.13</a> , Sept.,(2014). | Zaidi, Taskeen, Saxena, Vipin and Sudhir Kumar Singh                         | 0.68                             |
| 33.  | "Modeling and Validation of Light Dependent Reaction of Photosynthesis"  | Wulfenia journal, Klagenfurt, Austria, Vol.22, No.1; Jan, 2015  | Zaidi Taskeen  | 0.267                            |
| 34.  | Modeling for Minimization of Loneliness of People on the Social Networking Websites)   | (Accepted to be appeared in March, 2015, Journal of Psychiatry  | Zaidi Taskeen, Saxena Vipin  | 0.871                            |
| 35.  | Four-Way Combinatorial Interpretations Of Some Rogers-Ramanujan Type Identities  | <a href="#">Ars -Combinatoria, 2014, (Accepted)</a>   | J. K. Sareen And M. Rana   | 0.268                            |
| 36.  | Coincidence and Common Fixed Point Results For Generalized $\alpha$ - $\psi$ Contractive Type Mappings With applications         | Bulletin of the Belgian Mathematical Society Simon Stevin accepted  | Priya Shahi, Jatinderdeep Kaur, S.S. Bhatia                                  | I.F. 0.36                        |
| 37.  | Integrability and L1-convergence of fuzzy Trigonometric series with special fuzzy coefficients                                   | Journal of Non- Linear Science and Applications, in Press   | Sandeep Kaur and Jatinderdeep Kaur   | 1.0756                           |



| S.N. | Title of the paper  | Name of Journal with volume, page nos., year   | Name of the Author  | Impact factor and Citation Index |
|------|---|--|---|----------------------------------|
| 38.  | Generalized $(\xi, \alpha)$ -expansive mappings and related fixed-point theorems  | Journal of Inequalities and Applications.2014, 2014:22   | Erdal Karapınar, Priya Shahi, Jatinderdeep Kaur, S.S. Bhatia, | 0.77                             |
| 39.  | Common Fixed Points of Expansive Mappings in Generalized Metric Spaces,   | Journal of Applied Research and Technology,12(3), 2014,607-614.                                  | Priya Shahi, Jatinderdeep Kaur, S.S. Bhatia,                  | 0.44                             |
| 40.  | Reducing Mutation Testing Endeavor using the Similar Conditions for the same Mutation Operators Occurs at different Locations | Appl. Math. Inf. Sci. 8, 2389-2393, 2014   | T. Singla, A. Kumar, S. Garhwal                               | 1.23                             |
| 41.  | Temperature Predictive Technique for workload Scheduling in Green Clouds  | The Scientific world Journal, 2014, pp. 1-10   | Rajesh Kumar Supriya Kinger, Anju Sharma                      | 1.219                            |
| 42.  | Efficient Dynamic Replication Algorithm using Agents in Data Grids  | The Scientific world Journal , 2014, pp.1-10   | Rajesh Kuma Priyanka Vashisht, Anju Sharma                    | 1.219                            |
| 43.  | Fuzzy Entropy based Framework for Multi-Faceted Test Case Classification and Selection: An Empirical Study"                   | IET Software, Volume 8, Issue 3, June 2014, pp. 103 - 112  | Rajesh Kumar Manoj Kumar, Arun Sharma,                        | 0.536                            |
| 44.  | A Cooperative Network Framework for Multi-UAV Guided Ground Ad Hoc Networks,  | Journal of intelligent and Robotic Systems, Volume 77, Issue 3-4, March 2015, pp. 629-652, 2015. | Rajesh Kumar, Vishal Sharma                                   | 0.81                             |
| 45.  | Estimation-Based Queue Scheduling Model to Improve QoS for End Users in MANETs",  | Computing and Informatics ( IF 0.30)(In Press.).   | Rajesh Kumar, Vishal Sharma                                   | 0.319                            |
| 46.  | Dimensions and equilibrium structures of the primary components of the nonsynchronous binary systems                          | New Astronomy (NA), 26, 1-11, 2014   | Pathania, A and Medupe, T                                     | 1.244                            |

**List of research publications in Non-SCI Journals (2014-2015)**

| S. N. | Title of the paper  | Name of the Journal with volume, page nos., year                  | Name of the authors                                 |
|-------|---|---|---|
| 1.    | Viscous dissipation and Newtonian heating effects on free non-linear convection in a nanofluid saturated porous media | Open Journal of Heat, Mass & Momentum Transfer, 2(3) (2014) 87-97 | R. Nandkeolyar, A Sutradhar, PVSN Murthy, P Sibanda |
| 2.    | Dynamic task allocation in distributed computing systems by heuristic algorithms                                      | Int. J. of Operational Research. 21 (4), 391-408, 2014.           | Deepak Garg and Paramjeet Singh                     |
| 3.    | Finite volume approximations for size structured neuron model   | To appear in "Differential Equations and Dynamical Systems"       | Paramjeet Singh and Santosh Kumar                   |
| 4.    | Fuzzy Approach for Component Selection and Classification: An   | Research Journal of Applied Sciences, Engineering and             | Rajesh Kumar Vinay, Manoj Kumar Pachariya, Prashant |

| S. N. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors   |
|-------|--|---|---|
|       | Empirical Study  | Technology (RJASET), Volume 7(9) March 2014, pp. 1832-1836  | Johari  |
| 5.    | Service-Oriented Middleware for Multi-UAV Guided Ad Hoc Networks   | IT Convergence Practice, volume 2(3), pp. 24-33, 2014   | Rajesh Kumar, Vishal Sharma                                       |
| 6.    | Energy Efficient Routing Protocol For Manets   | i-manager's Journal on Information Technology, Volume 3(3), June-Aug 2014, pp. 40-52                                      | Rajesh Kumar, Shivam Kapoor                                       |
| 7.    | A Cuckoo Search based Approach for Solving Standard Cell Placement Problem   | Journal of VLSI Design Tools & Technology (4)2, 1-7, 2014   | Maninder Kaur, Amanpreet Singh.                                   |
| 7.    | "Regression Models for the Prediction of Compressive Strength of Concrete with & without Fly ash"  | International Journal of Latest Trends in Engineering and Technology (IJLTET), Vol. 3 Issue 4 March 2014/page no. 400-406 | Palika Chopra<br>Dr.R.K.Sharma<br>Dr.Maneek Kumar                 |
| 8.    | PREDICTING COMPRESSIVE STRENGTH OF CONCRETE FOR VARYING WORKABILITY USING REGRESSION MODELS  | International Journal of Engineering & Applied Sciences (IJEAS) Vol.6, Issue 4(2014)/page no. 10-22                       | Palika Chopra<br>Dr.R.K.Sharma<br>Dr.Maneek Kumar                 |
| 9.    | "A Distributed Load Balancing Scheme Based On Complex Network Model of Cloud Servers"  | ACM SIGSOFT (ISSN No.: 0163-5948), USA, Vol. 39(6), Nov. (2014) doi:10.1145/2674632.2674639.                              | Narander Kumar, Shalini Agarwal, Zaidi, Taskeen and Saxena, Vipin |
| 10.   | A Validation Technique for UML Activity Mode   | "Accepted for Publication" in International Journal of Computer Applications (IJCA) March 2015 Edition.                   | Sudhir Kumar Singh,<br>Taskeen Zaidi and Vipin Saxena             |
| 11.   | Modified Single Pass Clustering with Variable Threshold Approach   | International Journal of Innovative Computing, Information and Control, 11(1), 375-86, 2015                               | Mamta Mittal, R. K. Sharma and V. P. Singh                        |
| 12.   | Validation of k-means and threshold based clustering methods   | International Journal of Advancements in Technology, 5(2), 153-60, 2014   | Mamta Mittal, R. K. Sharma and V. P. Singh                        |
| 13.   | Predicting gender using Iris images  | Research Journal of Recent Sciences, 3(4), 20-26, 2014  | A. Bansal, R. Agrawal and R. K. Sharma                            |
| 14.   | Segmentation of isolated and touching characters in offline handwritten Gurmukhi script documents  | I.J. Information Technology and Computer Science, 02, 58-63, 2014, DOI: 10.5815/ijitcs. 2014.02.08                        | Munish Kumar, M.K. Jindal and R.K. Sharma                         |
| 15.   | A Proactive Technique for Automatic Detection and Signature Generation for Zero Day HTTP Attacks on Web Server of an Educational Institute | Computer Fraud & Security, Elsevier, Feb 2015.  | Sanmeet Kaur and Maninder Singh,                                  |
| 16.   | On Ideal Version of Lacunary Statistical Convergence of Double Sequences   | Gen. Math. Notes, Vol. 17, No. 1, July, 2013, pp.32-44  | Sudhir Kumar, Vijay Kumar and S.S. Bhatia                         |
| 17.   | Mathematical Analysis of the Transmission Dynamics of HIV/AIDS: Role of Female Sex Workers   | Appl. Math. Inf. Sci. 8, No. 5, 1-11 (2014)   | Navjot Kaur, Mini Ghosh and S.S. Bhatia                           |
| 18.   | I and I* convergence of multiple   | accepted for publication in Boletim   | Pankaj Kumar, V. Kumar,   |

| S. N. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors   |
|-------|---|--|---|
|       | sequences of fuzzy numbers  | da sociedade Paranaense de Matematica, 2014  | S.S. Bhatia   |
| 19.   | On $\lambda$ -statistical Limit inferior and Limit superior of order $\beta$ for Sequences of Fuzzy Numbers   | accepted for publication in General Mathematical Notes, 2014   | Pankaj Kumar, S.S. Bhatia, V. Kumar                         |
| 20.   | A note on $\lambda$ -statistical Limit Inferior and Limit Superior for Sequences of Fuzzy Numbers             | accepted in Pure and Applied Mathematics Letters, 2014   | Pankaj Kumar, S.S. Bhatia                                   |
| 21.   | Some New Difference Sequence Spaces of Invariant Means Defined by Ideal and Modulus Function                  | International Journal of Analysis, Volume 2014, Article ID 631301, 7 pages,<br><a href="http://dx.doi.org/10.1155/2014/631301">http://dx.doi.org/10.1155/2014/631301</a> | Sudhir Kumar, Vijay Kumar, and S. S. Bhatia                 |
| 22.   | Lacunary strongly almost summable sequence Spaces   | Acta Universitatis Apulensis, No. 39/2014, pp. 1-10  | S. Kumar, S. S. Bhatia, V. Kumar                            |
| 23.   | "Reliability based design optimization of concrete mix proportions using generalized ridge regression model", | International Journal of Science and Engineering , Vol.8(1), 2015.   | Rachna Aggarwal, M.K. Sharma, R.K. Sharma and Maneek Kumar, |
| 24.   | Second order slip flow of Cu-Water nanofluid over a stretching sheet with heat transfer                       | WSEAS Transaction on Fluid Mechanics, 9 (2014) 26-34   | Rajesh Sharma, Anuar Ishak                                  |
| 25.   | Steady Fluid Flow and Heat Transfer Over an Exponentially Shrinking Sheet with Partial Slip                   | AIP Conf. Proc., 1602 (2014) 260-265   | Rajesh Sharma, Anuar Ishak, Ioan Pop                        |

#### Publication of papers in conferences 2014-2015

| S. No. | Title of the paper  | Name of the conference with venue, date and year, page nos.  | Name of the authors                         |
|--------|---|--|---|
| 1.     | An improved genetic based Routing Protocol for VANETs                                       | Confluence The Next Generation Information Technology Summit (Confluence), 2014 5th International Conference-. IEEE, 2014, pp. 347 - 353.  | Rajesh Kumar , Divya Gupta                  |
| 2.     | "Enhanced swarm intelligence-based scheduler to improve QoS for MANETs                      | Confluence The Next Generation Information Technology Summit (Confluence), 2014 5th International Conference-. IEEE, 2014, pp. 340 - 346   | Rajesh Kumar, Priya Sharma                  |
| 3.     | Efficient Scheduling Algorithm based on Priority Scheduling Mechanism in Cloud Environment. | ICCC-2014, Dec. 27-28, Odisha. (Accepted for publication in IEEE)  | Jyoti Kumari, Anju Sharma                   |
| 4.     | A Context Sensitive Thresholding Technique for Automatic Image Segmentation                 | ICCIDM 2014 Conference, VSSUT, Odhisa, India, December 20-21(2014),Computational Intelligence in Data Mining - Volume 2,Smart Innovation, Systems and Technologies Volume 32, 2015, pp 19-25 | Anshu Singla, Swarnajyoti Patra             |
| 5.     | Offline Handwritten Gurmukhi Character Recognition System using RBF-SVM                     | International Workshop on Document Analysis and Recognition, IISc, Bangalore, 14 DEC 2014 (Accepted for publications in ACM Digital Library).  | Munish Kumar, M. K. Jindal and R. K. Sharma |
| 6.     | Performance analysis of zone  | In Proc: Progress in Systems Engineering   | Karun Verma and R. K.                       |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors  |
|--------|--|---|--|
|        | based features for online handwritten Gurmukhi script recognition using support vector achine                      | Advances in Intelligent Systems and Computing Volume 330, 747-753, August 2014  | Sharma   |
| 7.     | Mobile agent information security in ad-hoc network  | April 2014, doi: 10.1109/ICCPEIC.2014.6915343 (IEEE), pp.77-80,   | Jasleen Kaur, Sharad Saxena, Anu Jain                        |
| 8.     | Securing mobile agent's information in ad-hoc network  | Sept 25-26, 2014, doi: 10.1109/CONFLUENCE.2014.6949352 pp. 442-446, (IEEE)  | Jasleen Kaur, Sharad Saxena, Mohd Abuzar Sayeed              |
| 9.     | Data agglomeration in wireless sensor networks   | Dec 11-13, 2014, International Conference on Parallel, Distributed and Grid Computing (PDGC), 2014, pp.285-289 (IEEE).  | Sandhu Jasminder Kaur, Saxena Sharad                         |
| 10.    | Challenges and issues in underwater acoustics sensor networks: A review  | Dec 11-13, 2014, International Conference on Parallel, Distributed and Grid Computing (PDGC), pp. 251-255 (IEEE).   | Jindal Himanshu, Saxena Sharad, Singh Singara                |
| 11.    | Acoustic communication characteristics in UWDBCSN  | Dec 11-13, 2014, International Conference on Parallel, Distributed and Grid Computing (PDGC), pp. 176-180 (IEEE).   | Saxena Sharad, Mehta Deepak, Kaur Jasminder, Jindal Himanshu |
| 12.    | "Modeling and Performance Estimation of Static Step Topology Under Distributed Environment"                        | In Proceedings of 101 <sup>th</sup> Indian Science Congress 2014 Held on Feb. 3-7, 2013, University of Jammua, Jammu, India.  | Zaidi Taskeen  |
| 13.    | Implementation of Bankers' Algorithm for Avoidance of Deadlock Across National Knowledge Network (NKN) through UML | In Proceedings of International Conference of the 8 <sup>th</sup> INDIACOM on Computing for Sustainable Global Development, (ISBN 978-93-80544-06-9), PP. 745-747, Organised by Bharti Vidyapeeth Institute of Computer Application and Management, New Delhi from 5-7 <sup>th</sup> March 2014 | Zaidi Taskeen, Saxena Vipin                                  |
| 14.    | Necessary and Sufficient condition for L1-convergence of certain sine sums,  | international Conference on Special Functions and their Applications Thapar Institute of Engineering & Technology University, Patiala, 2014 , 27  | Sandeep Kaur and Jatinderdeep Kaur                           |
| 15.    | Fixed Point Theorems for $\alpha$ - $\psi$ - contractive mappings,   | International Conference on Special Functions and their Applications Thapar Institute of Engineering & Technology University, Patiala, 2014 , 24  | Kapil Chawla and Jatinderdeep Kaur.                          |
| 16.    | Rational type in complex valued metric spaces with applications,   | International Conference on Special Functions and their Applications Thapar Institute of Engineering & Technology University, Patiala, 2014 , 26.   | Priya Shahi, Jatinderdeep Kaur and S.S. Bhatia               |
| 17.    | Lebesgue Integrability of Fuzzy Trigonometric Sine Series  | International Conference on Mathematical Sciences, Sathyabama University, Chennai, 2014, 491-494  | Sandeep Kaur and Jatinderdeep Kaur                           |
| 18.    | Analysis of various direction lifting schemes for JPEG2000 Standard  | IEEE International Conference on Recent Advances and Innovations in Engineering, Jaipur, May 9-11, 2014, pp 1-6   | Chirag Garg and Singara Singh Kasana                         |
| 19.    | Challenges and Issues in Underwater Acoustics Sensor   | IEEE International Conference on Parallel, Distributed and Grid Computing, Solan (HP),  | Himanshu Jindal, Sharad Saxena, Singara                      |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors                                  |
|--------|--|---|--|
|        | Networks: a review   | 16-17 Dec 2014, pp 251-255  | Singh Kasana   |
| 20.    | A Novel Image Zooming Technique Using Wavelet Coefficients | International Conference on Recent Cognizance in Wireless Communication & Image Processing, Jaipur, 16-17 Jan, 2015 | Himanshu Jindal, Singara Singh Kasana, Sharad Saxena |

#### List of research publications in SCI Journals year 2013-14

| S. No. | Title of the paper  | Name of Journal with volume, page nos., year   | Name of the Author  | Impact factor and Citation Index |
|--------|---|--|---|----------------------------------|
| 1      | Painlevé Analysis, Lie Symmetries and Exact Solutions for Variable Coefficients Benjamin-Bona-Mahony-Burger (BBMB) Equation                     | <i>Communication in Theoretical Physics</i> 60 (2013) 175-182  | Vikas Kumar, R.K. Gupta and Ram Jiwari                        | .954                             |
| 2      | On Certain New Exact Solutions of Einstein Equations for Axisymmetric Rotating Fields   | <i>Chinese Physics B</i> 22 (2013) 100203 (6pp)  | Lakhveer Kaur and R.K. Gupta                                  | 1.148                            |
| 3      | Dynamics of internal waves in a stratified ocean modeled by the extended Gardner equation with time-dependent coefficients                      | <i>Ocean Engineering</i> 70 (2013) 81 -87  | Sachin Kumar, K. Singh and R.K. Gupta                         | 1.161                            |
| 4      | Lie Group Analysis, Numerical and Non-Traveling Wave Solutions for the (2+1)-Dimensional Diffusion-Advection Equation with Variable Coefficient | <i>Chinese Physics B</i> , 23 (2014) 030201 (6pp).   | Vikas Kumar, R.K. Gupta and Ram Jiwari                        | 1.148                            |
| 5      | Some Invariant Solutions of Field Equations with Axial Symmetry for Empty Space Containing an Electrostatic Field                               | <i>Applied Mathematics and Computation</i> , 231 (2014) 560-565  | Lakhveer Kaur and R.K. Gupta                                  | 1.349                            |
| 6      | Equilibrium Structure of Rotationally and Tidally Distorted Prasad Model including the Effect of Mass Variation inside the Stars                | <i>Astrophysics</i> (translation of Russian language journal <i>Astrofizika</i> ), Vol. 57, No. 1, 129-138, 2014 | Sunil Kumar, A. K. Lal, Seema Saini                           | 0.336                            |
| 7      | A common fixed point theorem for two weakly compatible pairs in G-metric spaces using the property E.A  | <i>Fixed point theory and Applications</i> , 41 (2013)   | Manro S., Bhatia, S.S., Kumar, S. and Vetro, C                | 1.87                             |
| 8      | Non existence of totally contact umbilical slant lightlike submanifolds of indefinite Sasakian manifolds  | <i>Bulletin of the Iranian Mathematical Society.</i> (Accepted)  | Rashmi Sachdeva, Rakesh Kumar, S. S. Bhatia                   | 0.223                            |
| 9      | Numerical Solution of Stochastic Partial differential difference equation arising in reliability engineering                                    | <i>Applied Mathematics and Computation</i> , 219(14) : 7645:7652, 2013.  | Manwinder Kaur, Arvind Kumar Lal, S. S. Bhatia and A.S. Reddy | 1.349                            |

| S. No. | Title of the paper  | Name of Journal with volume, page nos., year                            | Name of the Author  | Impact factor and Citation Index |
|--------|---|---|---|----------------------------------|
| 10     | Generalized $(\xi, \alpha)$ -expansive mappings and related fixed-point theorems  | Journal of Inequalities and Applications 2014, 2014:22                  | Erdal Karapinar, Priya Shahi, Jatinderdeep Kaur and S. S. Bhaia | 0.82                             |
| 11     | Velocity dispersion an elastic plate with microstructure: effects of characteristic length in a couple stress model       | Meccanica DOI 10.1007/s11012013/9854-0 2013                             | Vikas Sharma and Satish Kumar Sharma                            | 1.747                            |
| 12     | A new method for sensitivity analysis of fuzzy transportation problems  | Journal of Intelligent and Fuzzy Systems, Vol. 25, pp. 167-175, 2013    | Neha Bhatia and Amit Kumar                                      | 0.788                            |
| 13     | Linear programming approach to find the exact solution of fully fuzzy linear systems with arbitrary fuzzy coefficients    | Journal of Intelligent and Fuzzy Systems, Vol. 25, pp. 747-753, 2013    | Neetu, Amit Kumar and Abhinav Bansal                            | 0.788                            |
| 14     | Modification in Chen and Tsai's method for solving time-cost trade-off problems of project networks in fuzzy environments | Neural Computing & Applications, Vol. 23, pp. 1045-1050, 2013           | Parmpreet Kaur and Amit Kumar                                   | 1.168                            |
| 15     | A new ranking approach for intuitionistic fuzzy numbers and its application   | Journal of Applied Research and Technology. Vol. 11, pp. 381-396, 2013  | Amit Kumar and Manjot Kaur                                      | 0.353                            |
| 16     | General form of linear programming problems with fuzzy parameters   | Journal of Applied Research and Technology, Vol. 11, pp. 629-635, 2013  | Amit Kumar and Jagdeep Kaur                                     | 0.353                            |
| 17     | Temperature Predictive Technique for workload scheduling in Green Clouds  | The Scientific journal, January 2014                                    | Supriya kinger, Rajesh Kumar, Anju Sharma                       | 1.73                             |
| 18     | Efficient Dynamic Replication Algorithm using Agents in Data Grids  | The Scientific journal. January 2014                                    | Priyanka Sharma, Rajesh Kumar, Anju Sharma                      | 1.73                             |
| 19     | Dimensions and equilibrium structures of the primary components of the nonsynchronous binary system                       | New Astronomy, 26, 1-11, 2014   | Pathania, A and Medupe, T                                       | 1.85                             |
| 20     | A Novel Classification Technique Based on Progress Transductive SVM Learning  | Pattern Recognition Letters, 2014                                       | Anshu Singla, Swarnajyoti Patra, Lorenzo Bruzzone               | 1.266                            |
| 21     | Fixed Point Theorems for Mappings of Integral Type with Applications  | Accepted in Journal of Nonlinear and Convex Analysis                    | Priya Shahi, Jatinderdeep Kaur and S. S. Bhatia                 | 0.976                            |
| 22     | Some applications of augmentation quotients   | Hacettepe Journal of Mathematics and Statistics, Vol. 42, 627-631, 2013 | Deepak Gumber   | 0.443                            |
| 23     | On the converse of a theorem of Schur   | Archiv der Mathematik, Vol. 101, 17-20, 2013                            | Deepak Gumber and Hemant Kalra                                  | 0.376                            |
| 24     | On equality of central and class preserving automorphisms of finite p-groups  | Indian Journal of Pure and Applied Mathematics, Vol. 44 (2013), 711-725 | Hemant Kalra and Deepak Gumber                                  | 0.216                            |

| S. No. | Title of the paper  | Name of Journal with volume, page nos., year  | Name of the Author  | Impact factor and Citation Index |
|--------|---|---|---|----------------------------------|
| 25     | Intuitionistic fuzzy optimization technique for solving multi-objective reliability optimization problems in interval environment | Expert Systems with Applications, 41(7), 3157 – 3167, 2014  | Harish Garg, Monica Rani, S.P. Sharma and Yashi Vishwakarma | 1.854                            |
| 26     | Solving structural Engineering Design Optimization Problems using an artificial bee colony algorithm                              | Journal of Industrial and Management Optimization, 10(3), 777 – 794, 2014                             | Harish Garg   | 0.598                            |
| 27     | The Role of Screening and Treatment in the Transmission Dynamics of HIV/AIDS and Tuberculosis Co-infection: A Mathematical Study  | Accepted in Journal of Biological Physics   | Navjot Kaur, Mini Ghosh and S. S. Bhatia                    | 0.951                            |
| 28     | Optimal equi-scaled families of Jarratt's Method  | International Journal of Computer Mathematics (Taylor & Francis), Issue 90, vol. 2, 408-422, 2013.    | Ramandeep Behl, V. Kanwar and Kapil K. Sharma               | 0.5                              |
| 29     | Another Simple Way of Deriving Several Iterative Functions to Solve Nonlinear Equations   | Journal of Applied Mathematics (Hindawi Publishing Corporation (USA)), doi:10.1155/2012/294086, 2014  | Ramandeep Behl, V. Kanwar and Kapil K. Sharma               | 0.656                            |
| 30     | A Novel Feature Extraction Technique for Offline Handwritten Gurmukhi Character Recognition                                       | IETE Journal of Research, 59(6), 687-92, 2013.  | Munish Kumar, R.K. Sharma and M. K. Jindal                  | 0.2                              |
| 31     | An Efficient Post Processing Algorithm for Online Handwritten Gurmukhi Character Recognition using Set Theory                     | International Journal of Pattern Recognition and Artificial Intelligence, 27(4), 1353002 (1-17), 2013 | Ravinder Kumar and R. K. Sharma                             | 0.6                              |
| 32     | Punjabi DeConverter for Generating Punjabi from Universal Networking Language   | Journal of Zhejiang University Science C, 14(3), 179-96, 2013   | Parteek Kumar and R K Sharma                                | 0.297                            |

#### List of research publications in Non-SCI Journals 2013-2014

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                             |
|--------|--|---|---|
| 1      | A new analytical method for solving fuzzy differential equations             | Iranian Journal of Fuzzy Systems, Vol. 10, pp. 19-39, 2013  | Sneh Lata and Amit Kumar                        |
| 2      | Analysis of Chirp as windowing function through fractional Fourier transform | International Journal of Electronics, <a href="#">Volume 100</a> , <a href="#">Issue 9</a> , 2013 | Pooja Mohindru, Rajesh Khanna, and S. S. Bhatia |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors               |
|--------|--|--|-----------------------------------|
| 3      | Fixed point theorems for $\alpha$ - $\psi$ -contractive type mappings of integral type with applications                             | Accepted in Journal of Nonlinear and Convex Analysis   | Jatinderdeep Kaur                 |
| 4      | Quadruple fixed point theorems for nonlinear contractions in partially ordered G-metric spaces                                       | Tbilisi Mathematical Journal, 6, (2013), 29-44.  | Jatinderdeep Kaur                 |
| 5      | Text Line detection and Segmentation in Handwritten Gurumukhi Scripts  | International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 3, Issue 5, pp. 1075-1080, 2013          | Aamisha, Khushneet Jindal         |
| 6      | On solving Mincut Balanced Circuit Partitioning Problem for Digital Circuit Layout using Evolutionary Approach with Solution Archive | International Journal of Computer Applications(0975 - 8887) Volume 62- No.14, Jan 2013 ,pp 39-42.                                      | Maninder Kaur, Kawaljeet Singh    |
| 7      | Digital Circuit Layout Problem based on Graph Partitioning Technique: A Glance   | IRACST - Engineering Science and Technology: An International Journal (ESTIJ), ISSN: 2250-3498, Vol.2, No. 6, June 2013, pp 2200-2204. | Maninder Kaur, Kawaljeet Sing     |
| 8      | Transformation of Graph partitions into Problem Domain in Digital Circuit Layout   | IRACST - Engineering Science and Technology: An International Journal (ESTIJ), ISSN: 2250-3498, Vol. 2, No. 7, June 2013,pp 2230-2231. | Maninder Kaur, Kawaljeet Singh    |
| 9      | Comparative study of Circuit Partitioning Algorithms   | IRACST - Engineering Science and Technology: An International Journal (ESTIJ), ISSN: 2250-3498, Vol. X, No. X, June 2013               | Maninder Kaur, Kawaljeet Singh    |
| 10     | An Intelligent Solution Archive Based Evolutionary Approach for Digital Circuit Layout.  | International Journal of Computational Intelligence Research. ISSN 0974-1259 Vol. 9, No.1 (2013), pp. 31-36.                           | Maninder Kaur, Kawaljeet Singh    |
| 11     | Digital Circuit Layout based on Graph Partitioning Technique using DNA Computing,  | International Journal of Computer Applications (0975 - 8887) Volume 15- No.1, June 2013, pp 17-20.                                     | Maninder Kaur, Kawaljeet Singh    |
| 12     | Solving Standard Cell Placement Problem Using an Evolutionary Approach   | International Journal of Computer Applications & Information Technology Vol. 3, Issue I June-July 2013 (ISSN: 2278-7720)               | Maninder Kaur, Jobanpreet Kaur    |
| 14     | Combinatorial interpretation of a generalized basic series   | HMS-Volume (Accepted), Springer, 2013  | A.K. Agarwal and M Rana           |
| 15     | Impact of security over System performance   | IJARCSSE, Volume 3, Issue 6, June 2013   | Vaibhav Shrivastava, Gurpal Singh |
| 16     | Computer trend with security by RSA, DES and BLOWFISH Algorithm  | IJCST, Volume 4, Issue 2, June 2013  | Vaibhav Shrivastava, Gurpal Singh |



| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                          |
|--------|--|---|--|
| 17     | Applying soft computing Approaches to predict defect density in software product release                   | Computing and Informatics. Accepted   | Vijai Kumar, Arun Kumar, Rajesh Kumar        |
| 18     | Fuzzy Entropy based Framework for Multi-Faceted Test Case Classification and Selection: An Empirical Study | IET software, Accepted  | Manoj Kumar, Arun Kumar, Rajesh Kumar        |
| 19     | Devnagari Numerals Classification and Recognition using an Integrated Approach                             | International Journal in Foundations of Computer Science, vol 3, pp. 61-66, 2013                                | Rajiv Kumar and Kanika Bansal                |
| 20     | K-Algorithm A Modified Technique for Noise Removal in Handwritten Documents                                | International Journal of Information Sciences and Techniques (IJIST) Vol 3. No. 3, pp. 1-8, 2013                | Rajiv Kumar and Kanika Bansal                |
| 21     | Several New Families of Jarratts Method for Solving Systems of Nonlinear Equations,                        | Applications and Applied Mathematics: An International Journal, vol. 8, 701-716, 2013                           | Ramandeep Behl, Kumar S. and V. Kanwar       |
| 2      | Generalized Sequence Spaces in a 2-nomed space defined by Ideal and a Modulus Function                     | Journal of "Analele Stiintifice ale Universitatii Ilexandruioan Cuza din Iasi-Serie Noua-Matematica, Accpeted   | Sudhir Kumar, V. Kumar, S. S. Bhatia         |
| 23     | Tuberculosis Diagnosis and Treatment: Negotiating The Solution And Implementations                         | International Journal of Current Research and Review, 5(6) 2013.  | Navjot Kaur and S.S. Bhatia                  |
| 24     | MDP Feature Extraction Technique for Offline Handwritten Gurmukhi Character Recognition                    | Smart Computing Review, 3(6), 397-404, 2013.  | Munish Kumar, M.K. Jindal and R.K. Sharma    |
| 25     | Ridge Regression for the Prediction of Compressive Strength of Concrete                                    | International Journal of Innovations in Engineering and Technology, 2(3), 106-111, 2013.                        | Palika Chopra, R. K. Sharma and Maneek Kumar |
| 26     | Evaluation of Rule based Machine learning algorithms on NSL-KDD dataset                                    | International journal of Computational ntelligence and Information Security, vol 4, no. 6, pp. 42-49, June 2013 | Tejvir Kaur and Sanmeet Kaur                 |
| 27     | Emulation of ftp service using virtual honeypot  | International Journal of Info & Computation Technology (IJICT) Volume 3, Number 10 (spl) (2013)                 | Aastha Bhandari, Sanmeet Kaur                |
| 28     | Policy Scripts to Detect Network Intrusions  | International Journal of Scientific & Engineering Research, Volume 4, Issue 8, August 2013                      | Sanmeet Kaur, Maninder Sing                  |
| 29     | Priority Based Hybrid Automation Testing Tool  | International Journal of Computer Applications Technology and Research, 2(4), 443-448, 2013                     | Priyanka, Sunita Garhwal                     |
| 30     | Cost pipeline trade- off in a transportation problem   | Yugoslavian Journal of Operational Research, 23(2),197-211, (2013)  | Vikas Sharma, Rita Malhotra, Vanita Verma    |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                               |
|--------|---|---|---|
| 31     | Uniformly convergent 3-TGFEM Vs LSFEM for singularly perturbed convection-diffusion problems on a Shishkin based logarithmic mesh | International Journal of Numerical Analysis and Modeling, Series-B, 4(4):315-334, 2013  | Vivek Sangwan, B.V. Rathish Kumar                 |
| 32     | Common fixed point theorems in modified intuitionistic fuzzy metric spaces  | Journal of Applied mathematics, Volume 2013, Article ID 189321, 13 pages, <a href="http://dx.doi.org/10.1155/2013/189321">http://dx.doi.org/10.1155/2013/189321</a> | Manro, S., Kumar, S., Bhatia, S.S. and Tas, K     |
| 33     | Modeling and OLAP cubes for Ground and Municipal Water Suppl  | International Journal of Computational Water, Energy and Environmental Engineering, USA, Vol. 2, PP.77-82, July 2013  | Zaidi, Taskeen, Singh Anupurna, and Saxena, Vipin |

#### Publication of papers in conferences 2013-2014

| S. No. | Title of the paper  | Name of the conference with venue, date and year, page nos.  | Name of the authors  |
|--------|---|--|--|
| 1      | An Integrated System to Identify and Recognize Vehicle Number Plate | International Conference on Electronics, Communication and Information Technology held on Oct 4-5, 2013 at Thapar Institute of Engineering & Technology University, Patiala        | Dr. Rajiv  |
| 2      | Promoting Rural Education through Cloud Computing - An Analysis     | Proc. of "Wilkes100- international Conference on Computing Sciences (ICCS)", at Lovely Professional University, Phagwara, India., Nov. 15-16, 2013,                                | Sharad Saxena, Shilpi Saxena, Vishal Raj Kohli, and Deepak Mehta |
| 3      | Rough Set Vs Entropy - Feature Selection Methods                    | Proc. Of International Conference on Advance Computing and Communication Technologies (ICACCT) (Asia Pacific Institute of Information Technology SD Panipat, India) Nov. 16, 2013, | Prahlad Modi, Sharad Saxena                                      |

#### List of research publications in SCI Journals in year 2012-13

| S. No. | Title of the paper  | Name of Journal with volume, page nos., year                                 | Name of the Author                                       | Impact factor and Citation Index |
|--------|---|--|--|----------------------------------|
| 1      | Eigenfrequencies of rotationally and tidally distorted white dwarf models of stars        | Astrophysics and Space Science (Ap&SS), 345, 155 - 167, 2013                 | Lal, A K, Kumar, T and Pathania, A                       | 1.564                            |
| 2      | On the use of Roche equipotentials in analyzing the problems of binary and rotating stars | Journal of Astrophysics and Astronomy (JOAA), 2013, In Press                 | Pathania, A, Lal, A K and Mohan, C                       | 0.4                              |
| 3      | Eigenfrequencies of rotationally and tidally distorted white dwarf models of stars        | Astrophysics and Space Science, Vol. 345, issue 1, page 155-167, 2013        | A. K. Lal,, Tarun Kumar and Ankush Pathania              | 1.686                            |
| 4      | Numerical solution of Chapman Kolmogorov differential difference equation arising in      | Applied Mathematics and Computation , Vol. 219, issue 14, p. 7645-7652, 2013 | Manwinder Kaur, A. K. Lal, S. S. Bhatia and A. S. Reddy. | 1.317                            |

| S. No. | Title of the paper   | Name of Journal with volume, page nos., year   | Name of the Author                             | Impact factor and Citation Index |
|--------|--|--|--|----------------------------------|
|        | reliability engineering,   |  |  |                                  |
| 5      | A robust computational technique for a system of singularly perturbed convection-diffusion equations                         | International Journal of Computational Methods, Vol. 10, issue 5, pp. 1350027, 2013                    | Vinod Kumar, Rajesh Kumar Bawa and A. K. Lal,  | 1.167                            |
| 6      | A Hybrid Initial Value Technique for Singularly Perturbed Boundary Value Problems  | Computational and Applied Mathematics, published online 26 March, 2013, doi: 10.1007/s40314-013-0020-z | Vinod Kumar, R. K. Bawa and A. K. Lal,         | 0.0806                           |
| 7      | On the use of the Roche Equipotential in Analyzing the Problems of Binary and Rotating Stars,                                | Journal of Astrophysics and Astronomy ( in press), 2013  | Ankush Pathania, A. K. Lal and C. Mohan        | 0.400                            |
| 8      | Computational Analysis of Steel Industry   | Mathematical Problem in Engineerin (Accepted), 2013  | Shakuntala, A. K. Lal and S. S. Bhatia         | 0.777                            |
| 9      | Quadruple fixed point theorems for nonlinear contractions in partially ordered G-metric spaces                               | Tbilisi Mathematical Journal, 6, (2013)  | Priya Shahi, Jatinderdeep Kaur and S.S. Bhatia |                                  |
| 10     | On central automorphisms of finite p-groups  | Communications in Algebra Vol. 41(3) 2013, 1117-1122   | Mahak Sharma and Deepak Gumber                 | 0.347                            |
| 11     | Comparative Study of Travelling Wave and Numerical Solutions for the Coupled Short Pulse (CSP) Equation,                     | Chinese Physics B, 22 (5) (2013) 050201, 2013  | Vikas Kumar, Ram Jiwari and R K Gupta          | 1.376                            |
| 12     | A numerical scheme based on weighted average differential quadrature method for the numerical solution of Burgers' equation. | Appl. Math. Comput., 219 (2013) 6680-6691, 2013  | Ram Jiwari, R.C. Mittal and K. K. Sharma       | 1.317                            |
| 13     | A numerical scheme based on differential quadrature method to solve time dependent Burgers' equation,                        | Engineering Computations, 30 (1) (2013), 117-131   | R C Mittal, Ram Jiwari and K K Sharma          | 1.06                             |
| 14     | Numerical Simulation of Two Dimensional Quasilinear Hyperbolic Equations by Polynomial Differential Quadrature Method        | Engineering Computations 30 (2013) 892-909   | Vikas Kumar, Ram Jiwari and R K Gupta          | 1.06                             |
| 15     | Comparative Study of Travelling Wave and Numerical Solutions for the Coupled Short Pulse (CSP) Equation,                     | Chinese Physics B 22(5) (2013) 050201 - 7  | Vikas Kumar, Ram Jiwari and R K Gupta          | 1.376                            |
| 16     | Optimal compromise solution of multi-objective minimal cost flow problems in fuzzy environment                               | Applied Mathematical Modelling, Vol. 37, pp. 1677-1693, 2013   | Manjot Kaur and Amit Kumar                     | 1.579                            |
| 17     | A new method for solving differential equations with vague parameters  | Applied Mathematical Modelling, Vol. 37, pp. 3282-3295, 2013   | Sneh Lata and Amit Kumar                       | 1.579                            |
| 18     | Mehar's method for solving fully fuzzy linear programming problems with L-R fuzzy  | Applied Mathematical Modelling, 37 (2013) 7142-7153  | Jagdeep Kaur and Amit Kumar                    | 1.579                            |

| S. No. | Title of the paper   | Name of Journal with volume, page nos., year                                 | Name of the Author                   | Impact factor and Citation Index |
|--------|--|--|--------------------------------------|----------------------------------|
|        | parameters   |  |                                      |                                  |
| 19     | A new method to find the unique fuzzy optimal value of fuzzy linear programming problems         | Journal of Optimization Theory and Applications, Vol. 156, pp. 529-534, 2013 | Jagdeep Kaur and Amit Kumar          | 1.062                            |
| 20     | Solving a fully fuzzy linear system with arbitrary triangular fuzzy numbers $(m, \alpha, \beta)$ | Soft Computing, Vol. 17, pp. 691-702, 2013.                                  | Neetu, Amit Kumar and Abhinav Bansal | 1.880                            |

**List of research publications in NonSCI Journals in year 2012-13**

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                        |
|--------|--|--|--|
| 1.     | Post Processing technique to reduce the tile boundary artifacts in JPEG2000 Images   | International Journal of Multimedia and its Applications, Vol. 4, No. 1, pp. 127-136, 2012           | Singara Singh, RK Sharma and MK Sharma     |
| 2.     | Symmetry Reductions and exact solution of modified b-family equation   | Indian Journal of Industrial and Applied Mathematics(Accepted) 2012                                  | K. Singh, R.K. Gupta, Sachin Kumar, Anupma |
| 3.     | Symmetries and Exact Solutions of Third- order partial differential equation arising in the Impulsive Motion of a Flat Plate                           | Indian Journal of Industrial and Applied Mathematics(Accepted) 2012                                  | R.K. Gupta, Sachin Kumar, Anupma           |
| 4.     | On Symmetry Analysis and Exact Wave solutions of New Modified Novikov equation   | International journal of Computational and mathematical and Mathematical sciences, 6, pp 65-70, 2012 | Anupma bansal, R.K. Gupta                  |
| 5.     | On symmetric and exact solutions of Einstein vacuum equations for axially symmetric gravitational fields   | International Journal of Mathematical and Computational Sciences 6 , pp 104-107, 2012                | N. Goyal and R.K. Gupta                    |
| 6.     | Travelling wave solutions for the Sawada-Kotera-Kadomtsev-Petviashvili equation and Bogoyavlensky-Konoplechenko equation by $(G'/G)$ -expansion method | International Journal of Mathematical and Computational Sciences 6 , pp 118-122,2012                 | N. Goyal and R.K. Gupta                    |
| 7.     | A comparative study of Modal matrix and finite elements methods for two point boundary value problems  | Int. J. of Appl. Math. and Mech. 8 (13), 29-45. 2012   | D. Sharma, Ram Jiwari, and Sheo Kumar      |
| 8.     | L1-convergence Of Modified Complex Trigonometric Sums,   | AIP conference Proc., 1482, (2012), 471-475.   | Jatinderdeep Kaur                          |
| 9.     | Multiobjective integer nonlinear fractional programming problem: A cutting plane approach  | Journal: Opsearch , vol. 49 (2), pp 133-153. 2012  | Vikas Sharma                               |
| 10.    | Method for solving a special type of fuzzy transportation problems   | The Journal of Fuzzy Mathematics, Vol. 20, pp. 119-132, 2012   | Amit Kumar, Amarpreet Kaur and Anila Gupta |
| 11.    | A new method for solving fuzzy critical path problems based on fuzzy linear programming formulation  | The Journal of Fuzzy Mathematics, Vol. 20, pp. 103-117, 2012   | Amit Kumar and Parmpreet Kaur              |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                         |
|--------|--|--|---|
| 12.    | An improved algorithm for solving fuzzy maximal flow problems  | International Journal of Applied Science and Engineering, Vol. 10, pp. 19-27, 2012         | Amit Kumar and Manjot Kaur                  |
| 13.    | A new method for solving fuzzy shortest path problems  | Journal of Applied Mathematics and Informatics, Vol. 30, pp. 571-591, 2012                 | Amit Kumar and Manjot Kaur,                 |
| 14.    | A new method for solving fully fuzzy linear programming problems   | Annals of Fuzzy Mathematics and Informatics, Vol. 3, pp. 103-118, 2012                     | Amit Kumar and Pushpinder Singh             |
| 15.    | A new computational method for solving fully fuzzy linear systems of triangular fuzzy numbers  | Fuzzy Information and Engineering, Vol. 4, pp. 63-73, 2012                                 | Amit Kumar, Neetu and Abhinav Bansal        |
| 16.    | A new computational method to solve fully fuzzy linear systems for negative coefficient matrix   | International Journal of Manufacturing Technology and Management, Vol. 25, pp. 19-32, 2012 | Amit Kumar, Neetu and Abhinav Bansal        |
| 17.    | On L1-convergence of Modified Cosine Sums,   | Southeast Asian Bulletin of Mathematics, 36,6, 2012, 831-836.                              | Jatinderdeep Kaur and S.S. Bhatia           |
| 18.    | A new method for sensitivity analysis of fuzzy linear programming problems   | ASOR Bulletin, Vol. 31, pp. 2-12, 2012   | Amit Kumar and Neha Bhatia                  |
| 19.    | Sensitivity analysis for fuzzy linear programming problems based on interval valued fuzzy numbers  | International Journal of Mathematics in Operational Research, Vol. 4, pp. 531-547, 2012    | Amit Kumar and Neha Bhatia                  |
| 20.    | Strict sensitivity analysis for fuzzy linear programming problems  | Journal of Fuzzy Set Valued Analysis, Vol. 2012, pp. 1-19, 2012                            | Amit Kumar and Neha Bhatia                  |
| 21.    | A note on "Fuzzy initial value problem for Nth-order fuzzy linear differential equations"  | Journal of Fuzzy Set Valued Analysis, Vol. 2012, pp. 1-3, 2012                             | Amit Kumar and Sneh Lata                    |
| 22.    | Reliability evaluation of condensate system using fuzzy Markov model   | Annals of Fuzzy Mathematics and Informatics, Vol. 4, pp. 281-291, 2012                     | Amit Kumar and Sneh Lata                    |
| 23.    | Quadruple fixed point theorems for nonlinear contractions in partially ordered G-metric spaces   | Tbilisi Mathematical Journal, 6, (2013), 29-44.  | Priya Shahi, Jatinderdeep Kaur, S.S. Bhatia |
| 24.    | Fuzzy fault tree approach for analyzing the fuzzy reliability of a gas power plant   | International Journal of Reliability and Safety, Vol. 6, pp. 354-371, 2012                 | Manjit Verma, Amit Kumar and Yaduvir Singh  |
| 25.    | Applying Neuro-fuzzy Approach to build the Reusability Assessment Framework across Software Component Releases - An Empirical Evaluation | International Journal of Computer Applications, Vol. 70, No. 15, pp: 41-47 2013            | Vijai Kumar, Rajesh Kumar, Arun Sharma      |
| 26.    | Power system reliability evaluation using fault tree approach based on generalized fuzzy number  | Journal of Fuzzy Set Valued Analysis, Vol. 2012, pp. 1-13, 2012.                           | Manjit Verma, Amit Kumar and Yaduvir Singh  |
| 27.    | Time Aware Test Case Prioritization based on Fault Coverage using Binary Integer Programming   | International Journal of data and Network security, Vol. 2 No. 1, pp: 101-103 2013         | Sunil, Rajesh Kumar                         |
| 28.    | Grapheme to Phoneme Conversion for Punjabi Language  | International Journal of Science, Technology & Management Vol.3, pp. 3-10, May 2012        | Ankita Goel, Divya Bansal, Khushneet Jindal |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                         |
|--------|---|--|---|
| 29.    | Punjabi Speech Synthesis system Using HTK   | International Journal of Information Sciences & Techniques Vol.2, No.4, pp. 57-69, July 2012 | Divya Bansal, Ankita Goel, Khushneet Jindal |
| 30.    | A comparative study of Modal matrix and finite elements methods for two point boundary value problems                             | Int. J. of Appl. Math. and Mech. 8 (13) (2012), 29-45.(2012)                                 | D. Sharma, Ram Jiwari, and Sheo Kumar       |
| 31.    | A differential quadrature algorithm for the Numerical Solution of the Second-Order One dimensional Hyperbolic Telegraph Equation, | Int J of Nonlinear Sciences, 13 (3) 259-266.2012   | Ram Jiwari, Sapna Pandit and R C Mittal     |
| 32.    | Numerical solutions of two point boundary value problems using Galerkin-Finite element method                                     | Int J of Nonlinear Sciences, 13 (2), 204-210.2012  | Ram Jiwari, Dinkar Shurma and Sheo Kumar,   |
| 33.    | Distance based clustering of software design components   | International Journal of Applied Engineering Research, Vol. 7, issue 11,2012                 | Sunil Kumar, Rajesh K. Bhatia, Rajesh Kumar |

#### List of research publications in year 2011-2012

##### List of SCI Publications

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                                | Impact Factor and Citation Index (SCI) |
|--------|---|--|--|--|
| 1      | Reliability analysis of polytube industry using supplementary variable technique                                      | Applied Mathematics and Computation, Vol. 2818 (8), pp. 3981 - 3992,2011                 | Shakuntala, A. K. Lal, S. S. Bhatia, J. Singh      | 1.317                                  |
| 2      | Soft Computing Based Software Test Cases Optimization: A Survey   | International Review on Computers and Software, Vol. 6(4), July-2011                     | Manoj Pachariya, Arun Sharma, Rajesh Kumar         | 0.21                                   |
| 3      | Quality aspects for component-based systems - A metrics based approach  | Accepted in Software: Practice and Experience and published in Wiley online Library,2011 | Vijai Kumar, Arun Kumar, Rajesh Kumar, P.S. Grover | 0.519                                  |
| 4      | STH: A Highly Scalable and Economical Topology for Massively Parallel Systems   | Accepted in Journal of the Indian Institute of Science,2011                              | Jahangir Alam, Rajesh Kumar                        | 0.22                                   |
| 5      | Generalized thermo elastic waves in micro stretch plates loaded with fluid of varying temperature                     | International Journal of Applied Mechanics (IJAM), Vol. 3, issue 3, pp 563-586,2011      | S. Kumar, J.N. Sharma, Y. D. Sharma                | 1.165                                  |
| 6      | Mehar's method to find exact fuzzy optimal solution of unbalanced fully fuzzy multi-objective transportation problems | Optimization Letters 6 (2012) 1737-1751  | Anila Gupta, Amit Kumar and Amarpreet Kaur         | 0.952                                  |
| 7      | A Novel design Technique for variable Non-recursive Digital Filter based on FrFT                                      | Electronics and electrical Engineering, No. 5 (121),2012                                 | P.Mohindru, R. Khanna, S.S. Bhatia                 | 0.659                                  |
| 8      | Modelling the spread of HIV in a Stage Structured Population: Effect of Awareness                                     | International Journal of BioMathematics 2, Vol. 5, No. 2, 2012                           | Navjot kaur, Mini Ghosh, S.S. Bhatia               | 1.68                                   |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                                | Impact Factor and Citation Index (SCI) |
|--------|---|---|--|--|
| 9      | Symmetries and exact solutions of the non-diagonal Einstein-Rosen metrics   | Phy.Scr. Vol. 85, 015004(6pp),2012  | N. Goyal and R.K. Gupta                            | 1.204                                  |
| 10     | A class of exact solution of Einstein field equation  | Phy.Scr. Vol. 85, 055011 (6pp),2012   | N. Goyal and R.K. Gupta                            | 1.204                                  |
| 11     | A class of new exact solutions of Einstein- Maxwell equations for magnetostatic   | Chinese Physics B, 21,2012  | N. Goyal and R.K. Gupta                            | 1.376                                  |
| 12     | Modified (G'/G)- Expansion Method for Finding Exact Wave solution of the coupled Klein-Gordon-Schrodinger Expansion                       | Mathematical Methods in the Applied Sciences, 35(10), pp 1175-1187,2012                                     | Anupma Bansal, R.K. Gupta                          | 0.8                                    |
| 13     | Kawahara equation and modified Kawahara equation with time dependent coefficients: symmetry analysis and generalized G'G-expansion method | Mathematical Methods in the Applied Sciences (in press)2012   | Lakhveer Kaur, R.K.Gupta                           | 0.8                                    |
| 14     | Coupled Higgs Field Equation and Hamiltonian Amplitude Equation : Lie Classical Approach and (G'/G)-expansion Method                      | Parmana-Journal of Physics (in press) (springer)2012  | Sachin Kumar, K.Singh, R.K.Gupta                   | 0.575                                  |
| 15     | Painleve Aalysis,lie symmetries and exact solutions for (2+1)-dimensional variable coefficients Broer-kaup equations                      | Commun Nonlinear Sci Numer Simulat, Vol.17, pp 1529-1541,2012   | Sachin Kumar, K.Singh, R.K.Gupta                   | 2.806                                  |
| 16     | Structures and oscillations of rotationally and tidally distorted polytropic models of stars in the presence of Coriolis force            | Proceeding of Royal Society A – Mathematical Physical and Engineering Sciences, Vol. 468, pp. 448-466,2012. | Ankush Pathania, A. K. Lal and C. Mohan            | 1.971                                  |
| 17     | Effect of coriolis force an the structures and oscillations of rotationally and tidally distorted stars in binary systems                 | Proceedings of Royal Society A; Mathematics, physical and Engineering Sciences, 468, pp 448-466,2012        | A.K.Lal, Ankush Pathania, C. Mohan                 | 1.971                                  |
| 18     | Equilibrium Structure of differentially rotating and tidally distorted Prasad odel including mass variation inside the stars              | International Journal of Mathematical Archieve, 3(5), pp 1772-1778,2012                                     | A.K.Lal, Seema Saini, Sunil Kumar                  | 1.2                                    |
| 19     | The Kippenhahn and Thomas averaging method for the structure of rotating stars  | Bulletin of Astronomical Society of India,Vol. - 40,pp 41-50,2012   | Ankush Pathania, A. K. Lal, C. Mohan and T. Medupe | 2.722                                  |
| 20     | Radius of the Roche equipotential surfaces  | Astrophysics and Space Science, Vol. - 338, pp 127 - 145, 2012  | Ankush Pathania and Thebe Medupe                   | 1.686                                  |
| 21     | On central automorphisms of finite p-group  | Accepted in Communication in Algebra,2012   | Dr. Deepak Gumber, Mahek Sharma                    | -                                      |
| 22     | Symmetric duality for second  | Optimization Letters, (Accepted)  | T.R. Gualti, Geeta &                               | 0.952                                  |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors                           | Impact Factor and Citation Index (SCI) |
|--------|---|--|---|--|
|        | order fractional programs   | 2012   | Khushboo Verma                                |  |
| 23     | G-type seismic waves in fibre reinforced media  | Meccanica, Volume 47, Issue 7 (2012), Page 1775-1785,2012                                | A. Chattopadhyay, A. K. Singh                 | 1.558                                  |
| 24     | Propagation of a crack due to magnetoelastic shear waves in a self-reinforced medium  | Journal of Vibration and Control. (Accepted )2012  | A. Chattopadhyay, A. K. Singh                 | 1.0                                    |
| 25     | Haar wavelet quasilinearization approach for numerical simulation of Burgers' equation  | Computer Physics Communications, 183 , pp 2413-2423,2012                                 | Ram Jiwari                                    | 3.27                                   |
| 26     | A differential quadrature method for solving Burgers' -type equation  | International Journal of Numerical Methods for Heat and Fluid Flow, Vol. 22 Iss: 7, 2012 | Ram Jiwari and R C Mittal,                    | 1.09                                   |
| 27     | A Differential Quadrature Algorithm to Solve the Two Dimensional Linear Hyperbolic Telegraph Equation with Diriclet and Neumann Boundary Conditions | Applied Mathematics and Computation, 218 pp 7279-7294.,2012                              | Ram Jiwari, S. Pandit and R C Mittal          | 1.32                                   |
| 28     | Numerical simulation of two-dimensional sine-Gordon solitons by differential quadrature method  | Computer Physics Communications, 183, pp 600-616,2012                                    | Ram Jiwari, S. Pandit and R C Mittal          | 3.268                                  |
| 29     | Efficient Rate Control Approach for JPEG2000 Image Coding   | Journal of Electronic Imaging, 21(3), 2012   | Singara Singh, R. K. Sharma, and M. K. Sharma | 0.694                                  |
| 30     | Punjabi to UNL Enconversion System  | SADHANA, 37(2),2012  | Parteek Kumar and R K Sharma                  | 0.259                                  |
| 31     | A new approach for solving fuzzy transportation problems using generalized trapezoidal fuzzy numbers  | Applied Soft Computing, Vol. 12, pp. 1201-1213,2012                                      | Amarpreet Kaur and Amit Kumar                 | 2.612                                  |
| 32     | Optimization for different types of transportation problems with fuzzy coefficients in the objective function                                       | Journal of Intelligent and Fuzzy Systems, Vol. 23, pp. 1-12, 2012                        | Amarpreet Kaur and Amit Kumar                 | 0.556                                  |
| 33     | Fuzzy solid transshipment problems and its fuzzy optimal solution   | Applied and Computational Mathematics 11 (2012) 398-420                                  | Amarpreet Kaur and Amit Kumar                 | 0.551                                  |
| 34     | Numerical Study of Two-Dimensional Reaction-Diffusion Brusselator System,   | Appl. Math. Comput., 217 (12) (2011), 5404-5415  | R.C. Mittal and Ram Jiwari                    | 1.317                                  |
| 35     | Exact fuzzy optimal solution of fully fuzzy linear programming problems with unrestricted fuzzy variables   | Applied Intelligence, Vol.37, pp. 145-154, 2012  | Jagdeep Kaur and Amit Kumar                   | 0.849                                  |
| 36     | Efficient Rate Control Approach for JPEG2000 Image Coding",   | Journal of Electronic Imaging, Vol. 21, No. 3, pp. 033004(1-8), 2012.                    | Singara Singh, R. K. Sharma, and M. K. Sharma | 0.694                                  |



| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                           | Impact Factor and Citation Index (SCI) |
|--------|--|--|---|--|
| 37     | Post Processing Technique to Reduce Tile Boundary Artifacts in JPEG2000 Compressed Images  | International Journal of Multimedia and its Applications, Vol. 4, No. 1, pp. 127-136, 2012 | Singara Singh, R. K. Sharma, and M. K. Sharma | NA                                     |
| 38     | A new ranking approach and its application for solving fuzzy critical path problems  | South African Journal of Industrial Engineering 23 (2012) 91-102                           | Parmpreet Kaur and Amit Kumar                 | 0.215                                  |
| 39     | Mehar's method to find exact fuzzy optimal solution of unbalanced fully fuzzy multi-objective transportation problems  | Applied Mathematical Modelling, Vol. 36, pp. 4087-4095, 2012.                              | Anila Gupta, Amit Kumar and Amarpreet Kaur    | 1.579                                  |
| 40     | Mehar's method to find exact fuzzy optimal solution of unbalanced fully fuzzy multi-objective transportation problems  | Optimization Letters , Vol. 6, pp. 1737-1751, 2012   | Anila Gupta, Amit Kumar and Amarpreet Kaur    | 0.952                                  |
| 41     | Fuzzy optimal solution for unbalanced fully fuzzy minimal cost flow problems   | International Journal of Fuzzy Systems, Vol. 14, pp. 1-10, 2012                            | Manjot Kaur and Amit Kumar                    | 1.157                                  |
| 42     | Method for solving fully fuzzy multi-objective solid minimal cost flow problems  | Applied Intelligence 38 (2012) 239-254   | Manjot Kaur and Amit Kumar                    | 0.849                                  |
| 43     | A new ranking approach for intuitionistic fuzzy numbers and its application  | Journal of Applied Research and Technology 11 (2013) 381-396                               | Amit Kumar and Manjot Kaur                    | 0.145                                  |
| 44     | Mehar's method for solving fuzzy sensitivity analysis problems with LR flat fuzzy numbers  | Applied Mathematical Modelling, Vol. 36, pp. 4087-4095, 2012                               | Neha Bhatia and Amit Kumar                    | 1.579                                  |
| 45     | A new method for solving linear multi-objective transportation problems with fuzzy parameters  | Applied Mathematical Modelling ,Vol. 36, pp. 1421-1430, 2012                               | Anila Gupta and Amit Kumar                    | 1.579                                  |
| 46     | Sensitivity analysis for interval-valued fully fuzzy linear programming problems   | Journal of Applied Research and Technology. (Accepted) 2012                                | Neha Bhatia and Amit Kumar,                   | 0.145                                  |
| 47     | Finite element analysis for mass-lumped three-step Taylor Galerkin method for time dependent singularly perturbed problems with exponentially fitted splines | Numerical Functional Analysis and Optimization, 33(6):638-660, 2012                        | Vivek Sangwan, B.V. Rathish Kumar             | 0.711                                  |
| 48     | An $\varepsilon$ – Uniform Hybrid Scheme for Singularly Perturbed Delay Differential Equation  | Applied Mathematics and Computation, 217(21), 8216-8222, 2011                              | Rajesh Bawa, Arvind K. Lal and Vinod Kansal   | 1.534                                  |
| 49     | The comparative study of the subsystems subjected to independent and simultaneous failures   | Eksploatacja I Niezawodnosc-Maintenance and Reliability,4(58),63-71, 2011                  | Shakuntal, A. K. Lal, and S.S.Bhatia          | 0.319                                  |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year                              | Name of the authors   | Impact Factor and Citation Index (SCI) |
|--------|---|---|---|--|
| 50     | Common Fixed Points of Expansive Mappings in Generalized Metric Spaces  | Journal of Applied Research and Technology on June 15, 2012                   | Priya Shahi, Jatinderdeep Kaur and S.S. Bhatia                                |  |
| 51     | point theorems for $\alpha$ - $\psi$ contractive type mappings of integral type with applications                     | Journal of Nonlinear and Convex Analysis on 10 <sup>th</sup> August, 2012     | Priya Shahi, Jatinderdeep Kaur and S.S. Bhatia                                |  |
| 52     | Fixed Point Theorems for $(\zeta, \alpha)$ -Expansive mappings in complete metric space                               | Fixed point theory and applications, 157, 2012, 1-12                          | Priya Shahi, Jatinderdeep Kaur and S.S. Bhatia                                | 1.63                                   |
| 53     | A differential quadrature method for solving Burgers'-type Equation   | Int. J. of Numerical Methods for Heat and Fluid Flow, 22 (7), (2012), 880-895 | R.C. Mittal and Ram Jiwari  | 0.752                                  |
| 54     | A numerical study of singularly perturbed generalized Burgers-Huxley equation using three-step Taylor Galerkin method | Computers and Mathematics with Applications, 62(2), 776-786, 2011             | Vivek Sangwan, B.V. Rathish Kumar, S.V.S.S.N.V.G. Krishna Murthy, Mohit Nigam | 1.747                                  |

#### List of research publications in NON-SCI Journals 2011-12

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors   |
|--------|---|---|---|
| 1      | New Exact Travelling Wave Solutions to the Ostrovsky Equations  | International Journal of Applied mathematics and Mechanics, ISSN 0973-0184, Volume -2 , Number 1-2, pp.27-33,2011                       | R.K.Gupta,S.S.Bhatia and Rajeev                                 |
| 2      | Reliability analysis of polytube industry when two subsystems are simultaneously fail                               | Bangladesh Journal of Scientific and Industrial Research, Vol. 46, Issue 4, pp. 475 - 480,2011  | Shakuntala, Sanjay Kajal, A. K. Lal, S. S. Bhatia and Jai Singh |
| 3      | Operational Analysis of Rice Plant using Supplementary variable Techniques  | International Journal of Applied Engineering and Research, 6 (5), pp. 726 - 730, (ISSN No: 0973-4562 and online ISSN No: 1087-1090.2011 | Shakuntala, A. K. Lal, S. S., Bhatia and S. Kajal               |
| 4      | Computational Analysis of Availability of Process Industry for High Performance                                     | Communications in Computer and Information Science, 169(2), 265-274, (Springer Heidelberg Dordrecht London New York), 2011              | Shakuntala, A. K. Lal and S. S., Bhatia                         |
| 5      | Reliability and Availability Analysis of Eight-Unit Ply-Board Manufacturing Plant                                   | Accepted in International Journal of Quality and Reliability Management, 2011   | Pawan Gupta, A. K. Lal, R. K. Sharma and J. Singh,              |
| 6      | Modeling and Analysis of Software Availability of Router Software System using Fuzzy logic                          | International Journal of Mathematical Modeling Simulation and Applications (4(1), in press, ISSN No.: 0973 - 8355),2011                 | A. K. Lal, R. K. Bawa and Navdeep Singh                         |
| 7      | Barotropic Oscillations of Differentially Rotating Roche Models   | International Journal of Applied Physics, 1, Number 1, pp. 69-78,2011   | Sunil Kumar, A. K. Lal, H.G. Sharma and V. P. Singh             |
| 8      | Analytic Expression of Roche - Harmonics for Stellar Models distorted by Differential Rotation and tidal distortion | Global Journal of Mathematical Sciences: Theory and Practical, 3, No. 3, p. 235-244,2011  | Sunil Kumar, H.G. Sharma, V. P. Singh and A. K. Lal             |
| 9      | Equilibrium structures of differentially  | World Journal of Modeling and   |   |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors                          |
|--------|--|--|--|
|        | Rotating and Tidally Distorted Polytropic Gaseous Sphere   | Simulation, 7, No. 3, pp.206-217,(ISSN 1 746-723, England), 2011   | Sunil Kumar, A. K. Lal, V. P. Singh          |
| 10     | Towards Multi-Faceted Test Cases Optimization  | Published in Journal of Software Engineering and Applications, Vol. 4(9),2011  | Manoj Pachariya, Arun Kumar, Rajesh Kumar    |
| 11     | Weighted Bit Rate Allocation in JPEG2000 Compressed Images   | IJCSI, Vol. 8, No. 5, pp. 458-462, (Non SCI, Impact Factor 0.242). 2011  | Singara Singh, RK Sharma and MK Sharma       |
| 12     | Galerkin-Finite Element Method for the numerical solution of Advection-Diffusion equation                                  | IJPAM, 70 (3) , pp 389-399,2011  | Ram Jiware, Dinkar Shurma and Sheo Kumar     |
| 13     | Application of classical transportation methods for solving fuzzy transportation problems                                  | Journal of Transportation Systems Engineering and Information Technology, Vol. 11, pp. 68-80, 2011   | Amit Kumar and Amarpreet Kaur                |
| 14     | Ranking of generalized fuzzy numbers with generalized fuzzy simplex algorithm  | Journal of Mathematics and Applications, Vol. 34, pp. 53-74,2011   | Amit Kumar and Pushpinder Singh              |
| 15     | A new method for solving fuzzy linear programs with trapezoidal fuzzy numbers  | Journal of Fuzzy Set Valued Analysis, Vol. 2011, pp. 1-12,2011   | Amit Kumar and Jagdeep Kaur                  |
| 16     | Fuzzy optimal solution of fully fuzzy project crashing problems with new representation of LR flat fuzzy numbers           | <a href="#">Rough Sets, Fuzzy Sets, Data Mining and Granular Computing</a> , Lecture Notes in Computer Science, Springer Berlin / Heidelberg 2011, Vol. 6743, pp. 171-174.2011 | Amit Kumar, Parmpreet Kaur and Jagdeep Kaur, |
| 17     | A new algorithm for solving shortest path problem on a network with imprecise edge weight                                  | Applications and Applied Mathematics: An International Journal, Vol. 6 pp. 602-619,2011  | Amit Kumar and Manjot Kaur                   |
| 18     | Solution of fully fuzzy linear system with arbitrary coefficients,   | International Journal of Applied Mathematics and Computation, Vol. 3, pp. 232-237,2011   | Amit Kumar, Neetu and Abhinav Bansal         |
| 19     | Sensitivity analysis for fuzzy linear programming problems,  | Lecture Notes in Computer Science, Springer Berlin / Heidelberg 2011, Vol. 6743, pp. 103-110 2011  | Amit Kumar and Neha Bhatia,                  |
| 20     | A new method for solving sensitivity analysis for fuzzy linear programming problems  | International Journal of Applied Science and Engineering, Vol. 9, pp. 169-176,2011   | Amit Kumar, Neha Bhatia                      |
| 21     | Fuzzy reliability analysis of a gas power plant using $T_{\omega}$ -based arithmetic operations on L-R type flat vague set | Electroenergetics Electrotechnics-Electromechanics+ Control, Vol. 2, pp. 32-44,2011  | Manjit Verma and Amit Kumar                  |
| 22     | Reliability analysis of piston manufacturing system  | Journal of Reliability and Statistical Studies, Vol. 4, pp. 43-55,2011   | Amit Kumar and Sneh Lata                     |
| 23     | Staff computing approach for digital circuit layout based on graphical partitioning  | International J. of CA, 15, pp 35-39,2011  | Ms. Maninder Kaur                            |
| 24     | Post Processing technique to reduce the tile boundary artifacts in JPEG2000 Images   | International Journal of Multimedia and its Applications, Vol. 4, No. 1,pp. 127-136,2012   | Singara Singh, RK Sharma and MK Sharma       |
| 25     | Symmetry Reductions and exact  | Indian Journal of Industrial and   | K. Singh, R.K. Gupta,                        |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                        |
|--------|--|---|--|
|        | solution of modified b-family equation   | Applied Mathematics(Accepted) 2012  | Sachin Kumar, Anupma                       |
| 26     | Symmetries and Exact Solutions of Third- order partial differential equation arising in the Impulsive Motion of a Flat Plate                           | Indian Journal of Industrial and Applied Mathematics(Accepted) 2012                                 | R.K. Gupta, Sachin Kumar, Anupma           |
| 27     | On Symmetry Analysis and Exact Wave solutions of New Modified Novikov equation   | International journal of Computational and mathematical and Mathematical sciences, 6, pp 65-70,2012 | Anupma bansal, R.K. Gupta                  |
| 28     | On symmetric and exact solutions of Einstein vacuum equations for axially symmetric gravitational fields   | International Journal of Mathematical and Computational Sciences 6 , pp 104-107, 2012               | N. Goyal and R.K. Gupta                    |
| 29     | Travelling wave solutions for the Sawada-Kotera-Kadomtsev-Petviashvili equation and Bogoyavlensky-Konoplechenko equation by $(G'/G)$ -expansion method | International Journal of Mathematical and Computational Sciences 6 , pp 118-122,2012                | N. Goyal and R.K. Gupta                    |
| 30     | A comparative study of Modal matrix and finite elements methods for two point boundary value problems  | Int. J. of Appl. Math. and Mech. 8 (13), 29-45.2012   | D. Sharma, Ram Jiware, and Sheo Kumar      |
| 31     | An analysis of the effect of catastrophe on the number of times a markovian queue reaches its capacity in time t                                       | International journal of statistics and analysis, volume 1, 373-382,2011                            | N.k.Jain & Dhanesh Garg                    |
| 32     | Multiobjective integer nonlinear fractional programming problem: A cutting plane approach  | Journal: Opsearch , vol. 49 (2), pp 133-153. 2012   | Vikas Sharma                               |
| 33     | Method for solving a special type of fuzzy transportation problems   | The Journal of Fuzzy Mathematics, Vol. 20, pp. 119-132, 2012  | Amit Kumar, Amarpreet Kaur and Anila Gupta |
| 34     | A new method for solving fuzzy critical path problems based on fuzzy linear programming formulation  | The Journal of Fuzzy Mathematics, Vol. 20, pp. 103-117, 2012  | Amit Kumar and Parmpreet Kaur              |
| 35     | An improved algorithm for solving fuzzy maximal flow problems  | International Journal of Applied Science and Engineering, Vol. 10, pp. 19-27, 2012                  | Amit Kumar and Manjot Kaur                 |
| 36     | A new method for solving fuzzy shortest path problems  | Journal of Applied Mathematics and Informatics, Vol. 30, pp. 571-591, 2012                          | Amit Kumar and Manjot Kaur,                |
| 37     | A new method for solving fully fuzzy linear programming problems   | Annals of Fuzzy Mathematics and Informatics, Vol. 3, pp. 103-118, 2012                              | Amit Kumar and Pushpinder Singh            |
| 38     | A new computational method for solving fully fuzzy linear systems of triangular fuzzy numbers  | Fuzzy Information and Engineering, Vol. 4, pp. 63-73,2012   | Amit Kumar, Neetu and Abhinav Bansal       |
| 39     | A new computational method to solve fully fuzzy linear systems for negative coefficient matrix   | International Journal of Manufacturing Technology and Management, Vol. 25, pp. 19-32, 2012          | Amit Kumar, Neetu and Abhinav Bansal       |
| 40     | Power system reliability evaluation using fault tree approach based on generalized fuzzy number  | <i>Journal of Fuzzy Set Valued Analysis</i> , Vol. 2012, pp. 1-13,2012.                             | Manjit Verma, Amit Kumar and Yaduvir Singh |
| 41     | A new method for sensitivity analysis  | ASOR Bulletin, Vol. 31, pp. 2-12,2012   | Amit Kumar and Neha                        |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                                |
|--------|--|---|--|
|        | of fuzzy linear programming problems   |   | Bhatia   |
| 42     | Sensitivity analysis for fuzzy linear programming problems based on interval valued fuzzy numbers  | International Journal of Mathematics in Operational Research, Vol. 4, pp. 531-547, 2012                   | Amit Kumar and Neha Bhatia                         |
| 43     | Strict sensitivity analysis for fuzzy linear programming problems  | Journal of Fuzzy Set Valued Analysis, Vol. 2012, pp. 1-19, 2012   | Amit Kumar and Neha Bhatia                         |
| 44     | A note on "Fuzzy initial value problem for Nth-order fuzzy linear differential equations"  | Journal of Fuzzy Set Valued Analysis, Vol. 2012, pp. 1-3, 2012  | Amit Kumar and Sneha Lata                          |
| 45     | Reliability evaluation of condensate system using fuzzy Markov model   | Annals of Fuzzy Mathematics and Informatics, Vol. 4, pp. 281-291, 2012                                    | Amit Kumar and Sneha Lata                          |
| 46     | Distribution of the number of times M/M/2/N queueing system with heterogeneous servers reaches its capacity in time t under catastrophic effects   | International journal of computational and applied mathematics, Volume 6, 169-192, 2011                   | N.k.Jain & Dhanesh Garg                            |
| 47     | Fuzzy fault tree approach for analyzing the fuzzy reliability of a gas power plant   | International Journal of Reliability and Safety, Vol. 6, pp. 354-371, 2012                                | Manjit Verma, Amit Kumar and Yaduvir Singh         |
| 48     | Integrability and L1- Convergence of Double Trigonometric Series   | Analysis in Theory and Applications, vol. 27 (1), 2011, 32-39   | Jatinderdeep Kaur and S.S. Bhatia                  |
| 49     | Differential Quadrature Method for Numerical Solution of coupled viscous Burgers' equations  | Int. J. for Comput. Methods in Eng. Science and Mech.13 (2012), 1-5.                                      | R.C. Mittal and Ram Jiware                         |
| 50     | Design & Implementation of Virtual Client HoneyPot   | IJAR CET Volume 1 of 4, June 2012   | <i>Himani Gupta, Gurpal Singh Chhabra</i>          |
| 51     | Implementation of Linux Based Network Forensic System Using HoneyNet   | IJAR CET Volume 1 of 4, June 2012   | <i>Jatinder Kaur, Gurpal Singh, Manpreet Singh</i> |
| 52     | Distribution of the number of times M/M/2/N queueing system reaches its capacity in time t under catastrophic effects                              | International journal of computational science and mathematics, volume 3, 389-400, 2011                   | N.k.Jain & Dhanesh Garg                            |
| 53     | A comparative study of Modal matrix and finite elements methods for two point boundary value problems  | Int. J. of Appl. Math. and Mech. 8 (13) (2012), 29-45.(2012)  | D. Sharma, Ram Jiware, and Sheo Kumar              |
| 54     | A differential quadrature algorithm for the Numerical Solution of the Second-Order One dimensional Hyperbolic Telegraph Equation,                  | Int J of Nonlinear Sciences, 13 (3) 259-266.2012  | Ram Jiware, Sapna Pandit and R C Mittal            |
| 55     | Numerical solutions of two point boundary value problems using Galerkin-Finite element method, Int J of Nonlinear Sciences, 13 (2)(2012), 204-210. | Int J of Nonlinear Sciences, 13 (2), 204-210.2012   | Ram Jiware, Dinkar Shurma and Sheo Kumar,          |
| 56     | Hybrid Algorithm, to segment Character in Gurmukhi Handwritten Text, with a Comparative Study.   | International Journal. on Recent Trends in Engineering & Technology, Vol. 05, No. 01, pp. 174 - 176. 2011 | Kumar, Rajiv. and Singh, Amardeep                  |
| 57     | Algorithm to Detect and Segment Gurmukhi Handwritten Text into Lines, Words and Characters   | International Journal of Engineering and Tech, Singapore, Vol. 3, No 4. 2011                              | Kumar, Rajiv and Singh, Amardeep                   |
| 58     | Character Segmentation in Gurmukhi   | International Journal of Computer   | Kumar, Rajiv and                                   |

| S. No. | Title of the paper                                 | Name of the Journal with volume, page nos., year             | Name of the authors              |
|--------|--|--|----------------------------------|
|        | Handwritten Text using Hybrid Approach             | Theory and Engineering, Vol. 3, No. 4, pp. 499-501.          | Singh, Amardeep                  |
| 59     | convergence Of Modified Complex Trigonometric Sums | AIP conference Proc., 1482, (2012), 471-475                  | Jatinderdeep Kaur                |
| 60     | L1-convergence of Modified Cosine Sums             | Southeast Asian Bulletin of Mathematics, 36,6, 2012, 831-836 | Jatinderdeep Kaur and S.S.Bhatia |

#### Publication of papers in conference proceedings and other publications 2011-12

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors  |
|--------|--|---|--|
| 1      | Performance Analysis of Industrial System under Corrective and Preventive Maintenance                                    | International Conference on Quality and Reliability Engineering (ICQRE-11) held from December 20-22, I.S.I, Bangalore,2011  | Manwinder Kaur, Arvind Kumar Lal, Satwinder Singh Bhatia and A. S. Reddy |
| 2      | Equilibrium structure of differentially rotating gaseous sphere with generalized rotation law                            | National Conference on Recent Trend in Mathematics and its Applications (RTMA-11) held from Dec. 16-17, SLIET, Longowal 2011  | Arvind Kumar Lal, Seema Saini, V. P. Singh and C. Mohan                  |
| 3      | Eigen frequencies of pseudo-radial modes of oscillations of rotationally and tidally distorted white dwarf stars         | National Conference on Recent Trend in Mathematics and its Applications (RTMA-11) held from Dec. 16-17, SLIET, Longowal2011   | Arvind Kumar Lal and Tarun Kumar   |
| 4      | A Genetic Algorithm based Technique for Efficient Scheduling of Tasks on Multiprocessor System                           | International Conference on Soft Computing for Problem Solving (SocProS-2011) held from December 20-22, I.I.T., Roorkee,2011  | Poonam Pawar, A. K. Lal, Jugwinder Singh                                 |
| 5      | A Stochastic Model to Study the Cost Benefit Analysis of a Two - Unit System working in a Rice Plant with varying Demand | International Conference on Soft Computing for Problem Solving (SocProS-2011) held from December 20-22, I.I.T., Roorkee,2011  | Rachana, A. K. Lal, S. S. Bhatia, and Gulshan Taneja                     |
| 6      | On the oscillations of differentially rotating polytropes  | National Conference on Recent Trend in Mathematics and its Applications (RTMA-11) held from Dec. 16-17, SLIET, Longowal2011   | Arvind Kumar Lal, Sunil Kumar, V. P. Singh                               |
| 7      | Predicting Antioxidant Capacity of Whey Protein Hydrolysates Using Soft Computing Models                                 | in Proc. International Conference on Soft Computing for Problem Solving (SOCPROS 2011), Volume 131, 259-265, DOI: 10.1007/978-81-322-0491-6_25,2011   | A. K. Sharma, B. Mann and R. K. Sharma                                   |
| 8      | Offline Handwritten Gurmukhi Character Recognition Using Curvature Feature",   | in Proc. of AMOC2011, 981-989, 2011   | Munish Kumar, M. K. Jindal, and R. K. Sharma                             |
| 9      | Random Automatic Detection of Clusters   | in Proc. International Conference on Image Information Process Processing (ICIIP-2011), Digital Object Identifier: <a href="https://doi.org/10.1109/ICIIP.2011.6108856">10.1109/ICIIP.2011.6108856</a> pp. 1 - 6, 2011. | Mamta Mittal, V. P. Singh, and R. K. Sharma                              |
| 10     | SVM based Offline Handwritten Gurmukhi   | in Proc. of SCAKD-2011, Russia, 52-63, 2011   | Munish Kumar, R. K. Sharma, and M. K. Jindal                             |

| S. No. | Title of the paper  | Name of the conference with venue, date and year, page nos.  | Name of the authors                             |
|--------|---|--|---|
|        | Character Recognition   |  |   |
| 11     | k-Nearest Neighbor Based Offline Handwritten Gurmukhi Character Recognition                                     | in Proc. of ICIIP-2011 (IEEE), 2011  | Munish Kumar, M. K. Jindal, and R. K. Sharma    |
| 12     | Classification of Characters and Grading Writers in Offline Handwritten Gurmukhi Script                         | in Proc. of ICIIP-2011 (IEEE), 2011  | Munish Kumar, R. K. Sharma, and M. K. Jindal    |
| 13     | Review on OCR for Handwritten Indian Scripts Character Recognition  | in Proc. of DPPR-2011, 268-276, 2011   | Munish Kumar, M. K. Jindal, and R. K. Sharma    |
| 14     | Challenges in Creation of Punjabi WordNet and Bilingual Dictionaries  | in Proc. of the Second National Workshop of Indradhanush WordNet Consortium, Goa University, August 8-10, 2011, 105-112  | R.K. Sharma, Parteek Bhatia, Rekha Rattan       |
| 15     | K- means Clustering of Use-Cases using MDL  | Proceedings of Obcom-2011, held at IIT Chennai Dec. 9-11,2011  | Sunil Kumar, Rajesh Kumar Bhatia, Rajesh Kumar, |
| 16     | Object Use -Cases clustering using PFT  | Published in Proceedings of International Conference on Information and Intelligent Computing (ICIIC 2011) held at Hongkong, China during Nov. 25-27, 2011                     | Sunil Kumar, Rajesh Kumar Bhatia, Rajesh Kumar  |
| 17     | Contemporary Study of Cloud Computing Environment   | International Conference on advancing in Computing and Artificial Intelligence, Published in ACM proceedings, pp 233-235,2011  | Vinay Kukreja, Jaiteg Singh, Anju Sharma        |
| 18     | Cultural Computing: A Case study of Northern Indian Culture   | International conference on Culture and Computing, Japan, pp. 131-132.2011   | Bhupinder Kochhar, Anju Sharma, Ashish Jolly,   |
| 19     | Second order symmetric duality in non differential multiobjective programs over cones                           | International conference on Advances in Modelling, Optimization & Computing ,2011  | T.R. Gualti, Geeta & Khushboo Verma             |
| 20     | An iterative algorithm for a class of integer bilevel programming problems                                      | International conference on Advances in modelling, optimization and computing (AMOC - 2011), 408-417, 2011   | Vikas Sharma, Kalpana Dahiya, Vanita Verma      |
| 21     | Modified approach for analyzing the fuzzy reliability of a marine power plant                                   | Proceedings of International Congress on Productivity, Quality, Reliability, Optimization and Modeling , pp. 767-779,2011  | Amit Kumar and Sneha Lata                       |
| 22     | Equilibrium structure of differentially rotating white Dwarf models of stars using modified Roche Approximation | National Conference on applied mathematics and computational Physics, Proceeding name : Advances in applied mathematics and computational Physics, pp 132-139, Muradabad, 2012 | A.K.Lal, Seema saini, C.Mohan                   |
| 23     | Modeling The Effect of Female Sex-Workers on The Transmission dynamics of HIV/AIDS                              | Proceedings of the National Conference on Mathematical Modeling, Simulation and Optimization (MMSO-2012), July 20, 2012 , Organized by   | Navjot Kaur, Mini Ghosh and S.S. Bhatia         |

| S. No. | Title of the paper  | Name of the conference with venue, date and year, page nos.  | Name of the authors                            |
|--------|---|--|--|
|        |   | School of Applied Sciences Chitkara University, Punjab, Electronic version, 34-38,2012   |  |
| 24     | Tile Boundary Artifacts Reduction in JPEG2000 Images  | International Conference on Signal and Image Processing, Bangalore, 3-4 Jan,2012   | Singara Singh, RK Sharma and MK Sharma         |
| 25     | FAR and FRR based analysis of iris recognition system   | in Proc. IEEE International Conference on Signal Processing, Computing and Control (ISPCC 12), 1-6, 15-17 March,2012                       | Atul Bansal, R. Agarwal, and R. K. Sharma      |
| 26     | Cascading Style Sheet Styling Issues in Punjabi Language  | Communications in Computer and Information Science - Information Systems for Indian Languages, 1, Volume 139, Part 2, Pages 242-245, 2012. | Swati Mittal, R. K. Sharma and Parteek Bhatia, |
| 27     | State Complexities of different types of regular languages: a systematic Review   | Proc. of International conference on recent trends in computing, mechatronics and communication, feb 25-26,2012                            | Meenu Lochan, Sunita Garhwal                   |
| 28     | Person name date and place identification and extraction from finite state automaton: A systematic Review                                 | Proc. of International conference on recent trends in computing, mechatronics and communication, feb 25-26,2012                            | Roohi Sharma, Sunita Garhwal                   |
| 29     | Cultural Computing: A Review and Prototype Implementation of Northern Indian Culture  | International Conference on Computer and Information Sciences, Malaysia. (Accepted),2012   | Bhupinder Kochhar, Anju Sharma,                |
| 30     | Similarity analysis and new exact solutions of the Einstein Maxwell equations for the non- static Einstein and Rosen metrics              | Proceedings of International conference on Mathematics and Statistic (Accepted) 2012   | N. Goyal and R.K. Gupta                        |
| 31     | Traveling wave solutions for the Kadomtsev- Petviashvili-Benjamin-Bona-Mahony Equation and the Ito Equation By $(G'/G)$ -Expansion Methos | Proceedings of International conference on Emerging Trends in Engineering and Management pp (423-428)2012                                  | N. Goyal and R.K. Gupta                        |
| 32     | Combinatorial interpretation of a double summation series   | International Conference of special functions and applications (ICSFA), SVNIT, Surat, Gujarat,27-29 June, 2012.                            | M. Rana  |
| 33     | Snort rule Execution and front End for Snort Rule Making  | International Conference on Advanced Computing Technologies, June 2012 at Gurukul Vidyapeeth, Chandigarh.2012                              | .Isha Singla, Sanmeet Kaur                     |
| 34     | Intrusion Detection System Classification: A Survey   | International Conference on Advanced Computing Technologies, June 2012 at Gurukul Vidyapeeth, Chandigarh.2012                              | .Isha Singla, Sanmeet Kaur                     |
| 35     | Comparative Analysis of Various Misuse Detection Approaches: A Survey   | International Conference on Advanced Computing Technologies, June 2012 at Gurukul Vidyapeeth, Chandigarh.2012                              | Shaffali Gupta, Sanmeet Kaur                   |
| 36     | Design and Implementation of Policy Scripts to Detect Network Intrusions using Bro IDS  | International Conference on Advanced Computing Technologies, June 2012 at Gurukul Vidyapeeth, Chandigarh.2012                              | Shaffali Gupta, Sanmeet Kaur                   |



| S. No. | Title of the paper                                    | Name of the conference with venue, date and year, page nos. | Name of the authors |
|--------|---|---|---------------------|
| 37     | L1-convergence of modified complex trigonometric sums | ICFAS-2012, Kuala Lumpur, Malaysia, 12-14 June, 2012        | Jatinderdeep kaur   |

**List of research publications in year 2010-2011**

**List of SCI Publications**

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year   | Name of the authors   | Impact Factor and Citation Index (SCI) |
|--------|---|--|---|--|
| 1      | Availability analysis of polytube industry when two subsystems are simultaneously fail  | Bangladesh Journal of Scientific and Industrial Research, Vol. 46, Issue 4, pp. 475 - 480,2011   | Shakuntala, Sanjay Kajal, A. K. Lal, S. S. Bhatia and Jai Singh | -                                      |
| 2      | A new approach for ranking non-normal p-norm trapezoidal fuzzy numbers  | Computers and Mathematics with Applications, Vol. 61, pp. 881-887, 2011  | Amit Kumar, Pushpinder Singh, Amarpreet Kaur and Parmpreet Kaur | 1.747                                  |
| 3      | Development of efficient artificial neural network and statistical models for forecasting shelf life of cow milk khoa - a comparative study | in the Proceedings of the International Conference on High Performance Architecture and Grid Computing (HPAGC-2011), Springer-Verlag GmbH, Berlin (Germany), 145-149, 2011 | S. Goyal, A. K. Sharma and R. K. Sharma                         |  |
| 4      | A new method for solving fuzzy transportation problems using ranking function   | Applied Mathematical Modelling, Vol. 35, pp. 5652-5661,2011  | Amarpreet Kaur and Amit Kumar                                   | 1.579                                  |
| 5      | A new method for solving fully fuzzy linear programming problems  | Applied Mathematical Modelling, Vol. 35, pp. 817-823, 2011   | Amit Kumar, Jagdeep Kaur and Pushpinder Singh                   | 1.579                                  |
| 6      | Mehar's method for analyzing the fuzzy reliability of piston manufacturing system   | Eksploatacja i Niezawodnosc-maintenance and Reliability, Vol. 51, pp. 26-39,2011   | Sneh Lata and Amit Kumar  | 0.333                                  |

**List of research publications in NON-SCI Journals 2010-11**

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year                                     | Name of the authors                        |
|--------|--|--|--|
| 1      | An intersection theorem in free group rings  | International Journal of Algebra Vol. 4, No. 162010769-775                           | Deepak Gumber                              |
| 2      | A Numerical Scheme for singularly perturbed Burger-Huxley Equation,                            | J. Appl. Math. & Informatics 29 (2011), No. 3-4, 813-829                             | R.C. Mittal and Ram Jiwari                 |
| 3      | Numerical Scheme for Some Nonlinear Differential Equations Models in Biology,                  | Int. J. for Comput. Methods in Eng. Science and Mech 12 (3), (2011), 134-140.        | R.C. Mittal and Ram Jiwari                 |
| 4      | Application of linear programming for solving fuzzy transportation problems                    | Journal of Applied Mathematics and Informatics, Vol. 29, pp. 831-846, 2011           | Amit Kumar and Amarpreet Kaur              |
| 5      | Fuzzy linear programming approach for solving fuzzy transportation problems with transshipment | Journal of Mathematical Modelling and Algorithms, Vol. 10, pp. 163-180, 2011         | Amit Kumar, Amarpreet Kaur and Anila Gupta |
| 6      | New methods for solving fuzzy transportation problems with some additional transshipments      | ASOR Bulletin , Australian Society for Operations Research , Vol. 30, pp. 42-61,2011 | Amit Kumar, Amarpreet Kaur and Anila Gupta |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors                        |
|--------|---|---|--|
| 7      | Methods for solving unbalanced fuzzy transportation problems  | Operational Research-An International Journal, Vol. 11, 2011                            | Amit Kumar and Amarpreet Kaur              |
| 8      | Application of classical transportation methods to find the fuzzy optimal solution of fuzzy transportation problems     | Fuzzy Information and Engineering, Vol. 3, pp. 81-99,2011                               | Amit Kumar and Amarpreet Kaur              |
| 9      | A new approach for fuzzy critical path analysis,  | International Journal of Mathematics in Operational Research, Vol. 3, pp. 341-357, 2011 | Amit Kumar and Parmpreet Kaur              |
| 10     | Exact optimal solution of critical path problems  | Applications and Applied Mathematics, Vol. 6, pp. 1992-2008, 2011                       | Amit Kumar and Parmpreet Kaur              |
| 11     | An algorithm for solving fuzzy maximal flow problems using generalized triangular fuzzy numbers,                        | International Journal of Hybrid Intelligent Systems, Vol. 8, pp. 15-24, 2011            | Amit Kumar and Manjot Kaur                 |
| 12     | A new algorithm for solving network flow problems with fuzzy arc lengths  | Turkish Journal of Fuzzy Systems, Vol. 2, pp. 1-13,2011                                 | Amit Kumar and Manjot Kaur                 |
| 13     | Methods for solving Fuzzy assignment problems and fuzzy traveling salesman problems with different membership functions | Fuzzy Information and Engineering, Vol. 3, pp. 3-21,2011                                | Amit Kumar and Anila Gupta                 |
| 14     | A new method for solving fuzzy generalized assignment problems with L-R type fuzzy parameters                           | Journal of Advanced Research in Applied Mathematics, Vol. 3, pp. 74-84, 2011            | Amit Kumar and Anila Gupta,                |
| 15     | Method for solving fully fuzzy assignment problems using trapezoidal fuzzy numbers                                      | Advances in Fuzzy Mathematics, Vol. 6, pp. 39-51,2011                                   | Amit Kumar, Anila Gupta and Amarpreet Kaur |
| 16     | A new approach for solving fully fuzzy linear systems   | Advances in Fuzzy Systems, Vol. 2011, 2011  | Amit Kumar, Neetu and Abhinav Bansal       |
| 17     | A new method for solving fuzzy sensitivity analysis problems  | International Journal of Applied Science and Engineering, Vol. 9, pp. 49-64,2011        | Amit Kumar and Neha Bhatia                 |
| 18     | On certain new exact solutions of (2+1) dimensional calogero Degasperis equation via symmetry approach                  | International journal of Nonlinear science, 13, pp 475-481,2012                         | Anupma bansal, R.K. Gupta                  |
| 19     | Syntax Planning for Punjabi DeConverter   | Journal of Zhejiang University Science C  | Parteek Kumar and R K Sharma               |
| 20     | Generation of UNL Attributes and Resolving Relations for Punjabi Enconverter  | Malaysian Journal of Computer Science (ISSN 0127-9084) 24(1), 34-46, 2011               | Parteek Kumar and R. K. Sharma             |

#### List of research publications in National Journals

#### Publication of papers in conference proceedings and other publications 2010-11

| S. No. | Title of the paper  | Name of the conference with venue, date and year, page nos.  | Name of the authors                         |
|--------|---|--|---|
| 1      | Fuzzy optimal solution of fuzzy transportation problems with transshipments | <u>Rough Sets, Fuzzy Sets, Data Mining and Granular Computing</u> , Lecture Notes in Computer Science, Springer Berlin / Heidelberg 2011, Vol. 6743, pp. 167-170 | Amit Kumar, Amarpreet Kaur and Manjot Kaur  |
| 2      | Fuzzy optimal solution of fully fuzzy project crashing                      | <u>Rough Sets, Fuzzy Sets, Data Mining and Granular Computing</u> , Lecture Notes in   | Amit Kumar, Parmpreet Kaur and Jagdeep Kaur |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors        |
|--------|--|---|----------------------------|
|        | problems with new representation of LR flat fuzzy numbers, | Computer Science, Springer Berlin / Heidelberg 2011, Vol. 6743, pp. 171-174.  |                            |
| 3      | Sensitivity analysis for fuzzy linear programming problems | <u>Rough Sets, Fuzzy Sets, Data Mining and Granular Computing</u> , Lecture Notes in Computer Science, Springer Berlin / Heidelberg 2011, Vol. 6743, pp. 103-110. | Amit Kumar and Neha Bhatia |

**List of research publications in year 2009-2010**

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                                  | Impact Factor and Citation Index |
|--------|--|---|--|----------------------------------|
| 1      | HMM based Online Handwritten Gurmukhi Character Recognition  | International Journal of Machine Graphics and Vision, 19(2), 2010   | Anuj Sharma, Rajesh Kumar and R. K. Sharma           | --                               |
| 2      | Performance analysis of adaptive buffer management mechanism using autoregressive based MPEG-4 encoded video traffic model                   | Simulation Modelling Practice and Theory, 17(10), 1642-62, 2009   | Sakshi Kaushal and R. K. Sharma                      | 0.924                            |
| 3      | Effects of differential rotations on the eigenfrequencies of small adiabatic barotropic modes of oscillations of polytropic models of star   | Journal of Physics A: Mathematical and Theoretical, 42, 485212, 2009.   | A. K. Lal, Ankush Pathania, Alka Bhalla and C. Mohan | 1.54                             |
| 4      | Modeling and Analysis of Software Availability of Web-based System with 3-tier architecture  | International Journal of Computer Applications in Engineering, Technology and Sciences, , 2, p.483-487, October, 2009 | A. K. Lal, R. K. Bawa, Navdeep Singh                 | --                               |
| 5      | A Quantitative Evaluation of Aspect oriented Software Quality model  | ACM SIGSOFT Software Engineering Notes Vol. 34, Issue 5, pp 1-9, September 2009.                                      | Avadhesh Kumar; Rajesh Kumar ; P. S. Grover;         | --                               |
| 6.     | A fuzzy Logic Approach to Measure Complexity of Generic Aspect oriented Systems  | Journal of Object Technology Vol. 9, Issue 3, pp: 59-77, June 2010.   | Rajesh Kumar ; P.S. Grover; <b>Avadhesh Kumar</b>    | --                               |
| 7.     | Predicting Maintainability for Component based Systems by Using Fuzzy Logic  | Communication in Computer and Information Science, Vol. 40, Issue 11 pp: 581-591, August 2009.                        | Arun Sharma, Rajesh Kumar, P. S. Grover              | --                               |
| 8.     | Linearly Extendible Arm(LEA)- A Constant Degree Topology for Designing Cost Effective product networks                                       | Ubiquitous Computing and Communication Journal, Vol. 5, Issue 2, pp: 39-47, June 2010.                                | Alam, J.; Rajesh Kumar, Khan, Z.                     | --                               |
| 9.     | Eight Row Matrix(ERM) : A new topology for designing Cost Effective product networks   | Journal of engineering Science and Technology, Vol. 2, Issue 4, pp: 330-340, June 2010.                               | Alam, J.; Rajesh Kumar,                              | --                               |
| 10.    | Performance Analysis of Dynamic load Balancing Techniques for parallel and Distributed system  | ACM SIGSOFT Software Engineering Notes, Vol. 34, Issue 3, pp: 1-6, February 2010.                                     | Khan J. ; Rajesh Kumar ; Singh R.; Alam J.;          | --                               |
| 11     | Selection of Warehouse Sites for Clustering Ration Shops to Them with Two Objectives through a Heuristic Algorithm Incorporating Tabu Search | Opsearch (Springer) vol. 46(4) p.449-460  | Satya Prakash; M. K. Sharma Amarinder ;              | --                               |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                         | Impact Factor and Citation Index |
|--------|--|---|---|----------------------------------|
| 12     | An algorithm for solving the bi-objective warehouse problem in fuzzy environment using tabu search | International Journal of Physical and Mathematical Sciences   | Amit Kumar;Anila Gupta, M. K. Sharma        | --                               |
| 13     | "Modelling Biological Control of Algal Bloom in a Lake Caused by Discharge of Nutrients"           | Journal of Biological Systems, Vol 18, Issue 1 , 161-172, 2010  | Mini Ghosh                                  | 0.53                             |
| 14     | "Modelling Prey-predator Type Fishery with Reserve Area"   | International Journal of Biomathematics, Vol. 3, No-3, 1-15, 2010.                                    | Mini Ghosh                                  | --                               |
| 15     | Detection and segmentation of Handwritten Text in Gurmukhi Script using Flexible Windowing         | International Journal Of Computer Theory and Engineering, 02 Number 03, 329- , 2010                   | Rajiv Kumar;Amardeep Singh                  | --                               |
| 16     | A Hybrid Approach to Classify Gurmukhi Script Characters   | International Journal of Recent Trends in Engineering, Vol 3, No 2, 103-, 2010                        | Rajiv Kumar;Antarpreet Kaur;Amardeep Singh; | --                               |
| 17     | Slant submanifolds of LP-contact manifolds   | Differential Geometry-Dynamical systems, Vol. 12 (2010), 102-108                                      | M A Khan                                    | --                               |
| 18     | Warped product pseudo-slant submanifolds of Trans-Sasakian manifolds,                              | Thai Journal of Mathematics, Vol. 8, No. 1(2010) 205-215  | M A Khan                                    | --                               |
| 19     | Totally Umbilical Pseudo-Slant submanifolds of Nearly Cosymplectic manifolds,                      | Serdica Math. Journal, Vol. 36, (2010)1001-1012   | M A Khan                                    | --                               |
| 20     | The Dullin-Gottwald-Holm Equation: Classical Lie Approach and Exact Solutions"                     | International Journal of Nonlinear Science 9 (2010) 1-7.  | R K Gupta, Anupma                           | --                               |
| 21     | Convergence of modified complex trigonometric Sums in the metric space L                           | Lobachevskii Journal of Mathematics, , Vol. 31, No. 3, pp. 290-294, 2010                              | Jatinderdeep Kaur and S.S. Bhatia           | --                               |
| 22     | RM Approach for Ranking of Generalized Trapezoidal Fuzzy Numbers                                   | Fuzzy Information and Engineering, Vol. 2, No.1, 37-47, 2010.   | A. Kumar, P. Singh, A. Kaur, P. Kaur        | --                               |
| 23     | Fuzzy Optimal Solution of Fully Fuzzy Linear Programming Problems with Inequality Constraints      | International Journal of Applied Mathematics and Computer Sciences Vol. 6, No. 1, 2010                | A. Kumar, J. Kaur, P. Singh                 | --                               |
| 24     | Ranking of Generalized Trapezoidal Fuzzy Numbers Based on Rank, Mode, Divergence and Spread        | In Press. Turkish Journal of Fuzzy Systems.   | A. Kumar, P. Singh, A. Kaur, P. Kaur        | --                               |
| 25     | Ranking of Generalized Exponential Fuzzy Numbers using Integral Value Approach                     | International Journal of Advances in Soft Computing and Its Applications, Vol. 2, No. 2, 221-230 2010 | A. Kumar, P. Singh, A. Kaur                 | --                               |
| 26     | Big-M Method for Solving Linear Programming Problems using Generalized Fuzzy Numbers               | International Journal of Computing Science and Communication Technologies, Vol. 3, No. 1, 2010        | A. Kumar, P. Singh, J. Kaur                 | --                               |
| 27     | A New Method for Solving Fully   | Applied Mathematical Modelling,   | A. Kumar, J. Kaur,                          | 1.375                            |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors  | Impact Factor and Citation Index |
|--------|--|--|--|----------------------------------|
|        | Fuzzy Linear Programming Problems  | Vol. 35, No. 2, 817-823  | P. Singh   |                                  |
| 28     | Equality of Generalized Triangular Fuzzy Numbers,  | International Journal of Physical and Mathematical Science, Vol. 1, No. 1, 2010          | A. Kumar, P. Singh, A. Kaur, P. Kaur   | --                               |
| 29     | Solving Fully Fuzzy Linear Programming Problems with Inequality Constraints                              | International Journal of Physical and Mathematical Science, Vol. 1, No. 1, 2010          | A. Kumar, J. Kaur, P. Singh  | --                               |
| 30     | Fuzzy linear programming problems with fuzzy parameters,   | Journal of Advanced Research in Scientific Computing, 2, 1-12, 2010                      | A. Kumar, J. Kaur, P. Singh  | --                               |
| 31     | A New Approach for Ranking of L-R type Generalized Fuzzy Numbers,  | Tamsui Oxford Journal of Mathematical Sciences, Vol. 27, No. 2, 2011                     | A. Kumar, P. Singh, A. Kaur, P. Kaur   | --                               |
| 32     | Effect of Coriolis force on the shapes of rotating stars and stars in binary systems                     | Astrophysics and Space Science (Ap&SS), 319, 45 - 53, 2009                               | Lal, A K, Pathania, A and Mohan  | 1.686                            |
| 33     | A numerical study of pulsatile power law fluid flow in a porous channel                                  | Journal of Mechanics in Medicine and Biology, Vol. 9(3), 437-447, 2009                   | B.V. Rathish Kumar, Shalini, Mohit Nigam, Vivek Sangwan, S.V.S.S.N.V.G. Krishna. Murthy        | 0.468                            |
| 34     | Non-darcy mixed convection in a fluid saturated square porous enclosure under suction effect: part-II    | Journal of Porous Media, Vol. 13(9), 799-805, 2010                                       | S.V.S.S.N.V.G. Krishna Murthy, B.V. Rathish Kumar, Vivek Sangwan, Mohit Nigam, Peeyush         | 0.707                            |
| 35     | Non-darcy mixed convection in a fluid saturated square porous enclosure under suction effect: part-I     | Journal of Porous Media, Vol. 13(6), 537-554, 2010                                       | B.V. Rathish Kumar, S.V.S.S.N.V.G. Krishna Murthy, Vivek Sangwan, Mohit Nigam, Peeyush Chandra | 0.707                            |
| 36     | A numerical simulation of cardiac electric activity in LV based on mono-domain model                     | Journal of Mechanics in Medicine and Biology, 10(3), 431-444, 2010                       | B.V.Rathish Kumar, S.K.Pathak, Sangwan Vivek, S.K.Murthy                                       | 0.468                            |
| 37     | Effect of Coriolis force on the Roche limit and shapes of Roche equipotential surface of binary systems, | Astrophysics and space Science (Netherlands), 319, 45-53, 2009                           | A. K. Lal, Ankush Pathania and C. Mohan,   | 1.12                             |
| 38     | Lamb waves in micropolar thermoelastic solid plates immersed in liquid with varying temperature          | Meccanica , (springer)44: 305-319(2009)  | J.N. Sharma S.Kumar  | 1.518                            |
| 39     | Detection and segmentation of Handwritten Text in Gurmukhi Script using Flexible Windowing.              | International Journal of Computer Theory and Engineering, Vol 2, No 3, pp. 329-332. 2010 | Kumar, Rajiv. and Singh, Amardeep.   |                                  |

| S. No. | Title of the paper  | Name of the Journal with volume, page nos., year  | Name of the authors  | Impact Factor and Citation Index |
|--------|---|---|--|----------------------------------|
| 40     | Detection and segmentation of Lines and Words in Gurmukhi Handwritten Text. In.                                   | Proceedings of IEEE International Advance Computing Conference IACC - 10, IEEE Xplore,2010  | Kumar, Rajiv. and Singh, Amardeep.                         |                                  |
| 41     | Challenges in Segmentation of Text in Handwritten Gurmukhi Script   | Proceedings of BAIP 2010, CCIS 70, pp. 388-392, 2010.© Springer-Verlag Berlin Heidelberg 2010, 10.1007/978-3-642-12214-9_63, 2010 | Kumar, Rajiv. and Singh, Amardeep                          |                                  |
| 42     | A Hybrid Approach to Classify Gurmukhi Script Characters  | International Journal of Recent Trends in Engineering, Vol. 3, No. 2, pp. 103 - 105, 2010   | Kaur, Antarpreet Kumar, Rajiv and Singh, Amardeep          |                                  |
| 43     | Convergence Of Modified Complex Trigonometric Sums In The Metric Space L  | <a href="#">Lobachevskii Journal of Mathematics</a> ,2010, <a href="#">Volume 31, Number 3</a> , 290-294                          | Jatinderdeep Kaur and S.S. Bhatia                          |                                  |
| 44     | The Extension of the Theorem of J. W. Garrett C. S. Rees and C. V. Stanojevic from One Dimension to Two Dimension | International Journal of Mathematics Analysis, Vol. 3, (2009) no. 26, 1251 - 1257   | Jatinderdeep Kaur and S.S. Bhatia                          |                                  |
| 45     | Numerical Study of Burger-Huxley Equation by differential Quadrature Method                                       | Int. J. of Appl. Math. and Mech 5(8) (2009), 1-9.   | R.C. Mittal and Ram Jiwari                                 |                                  |
| 46     | Differential Quadrature Method for Two Dimensional Burgers' Equations,  | Int. J. for Comput. Methods in Eng. Science and Mech 10 (2009), 450-459   | R.C. Mittal and Ram Jiwari                                 |                                  |
| 47     | Use of Wavelet Transform Extension for Graphics Images  | International Journal of Image Processing, Vol. 3, No. 1, pp. 55-60, 2009   | Singara Singh, R. K. Sharma, and M. K. Sharma              | NA                               |
| 48     | On segmentation of touching characters and overlapping lines in degraded printed Gurmukhi script                  | International Journal of Image and Graphics, World Scientific Publishing Company, 9(3), 321-353, 2009                             | M. K. Jindal, G. S. Lehal and R. K. Sharma                 |                                  |
| 49     | Online handwritten Gurmukhi strokes preprocessing   | International Journal of Machine Graphics and Vision, 18(1), 105-20, 2009   | Anuj Sharma, R. K. Sharma and Rajesh Kumar                 |                                  |
| 50     | Modeling vibration frequencies of annular plates by regression based neural network                               | Applied Soft Computing Journal, 9(1), 439-447, 2009   | V. P. Singh, S. Chakraverty, R. K. Sharma and G. K. Sharma |                                  |
| 51     | Information systems and decision making across functional areas in manufacturing sector                           | Business Perspectives, 11(1), 47-54, 2009   | Khushdeep Dharni, R. K. Sharma and Ravi Kiran              |                                  |
| 52     | Generation of case markers for UNL-Punjabi Deconverter  | International Journal of Systemics, Cybernetics and Informatics (ISSN: 0973-4864), 44-48, 2009                                    | Parteek Bhatia and R. K. Sharma                            |                                  |
| 53     | Use of computer based applications: A study at different levels of management                                     | The Icfain Journal Management Research, 8(7), 45-55, 2009   | Khushdeep Dharni, Ravi Kiran and R. K. Sharma              |                                  |
| 54     | Use of computer applications across functional areas of management  | Gyan Management, 2(2), 103-16, 2009   | Khushdeep Dharni, Ravi Kiran and R. K. Sharma              |                                  |

| S. No. | Title of the paper   | Name of the Journal with volume, page nos., year                              | Name of the authors                           | Impact Factor and Citation Index |
|--------|--|---|---|----------------------------------|
| 55     | Information systems in Indian manufacturing sector: extent of use and support for managerial roles | International Journal of Business Information Systems, 4(6), 673-87, 2009     | Khushdeep Dharni, Ravi Kiran and R. K. Sharma |                                  |
| 56     | Recognizing online handwritten Gurmukhi characters using comparison of small line segments         | International Journal of Computer Theory and Engineering, 9(1), 136-141, 2009 | Anuj Sharma, R. Kumar and R. K. Sharma        |                                  |

#### List of research publications in National Journals

| S. No. | Title of the paper                                  | Name of the Journal with volume, page nos., year | Name of the authors                |
|--------|---|--|------------------------------------|
| 1.     | Integrability and L1-convergence of Ram-Kumari Sums | Punjab Academy of Sciences, vol 5, 12-16, 2009   | Jatinderdeep Kaur and S. S. Bhatia |

#### Publication of papers in conference proceedings and other publications

| S. No. | Title of the paper  | Name of the conference with venue, date and year, page nos.  | Name of the authors                             |
|--------|---|--|---|
| 1.     | An improved genetic based Routing Protocol for VANETs   | Confluence The Next Generation Information Technology Summit (Confluence), 2014 5th International Conference-. IEEE, 2014, pp. 347 - 353.  | Rajesh Kumar , Divya Gupta                      |
| 2.     | "Enhanced swarm intelligence-based scheduler to improve QoS for MANETs  | Confluence The Next Generation Information Technology Summit (Confluence), 2014 5th International Conference-. IEEE, 2014, pp. 340 - 346   | Rajesh Kumar, Priya Sharma                      |
| 3.     | Efficient Scheduling Algorithm based on Priority Scheduling Mechanism in Cloud Environment.                                 | ICCC-2014, Dec. 27-28, Odisha. (Accepted for publication in IEEE)  | Jyoti Kumari, Anju Sharma                       |
| 4.     | A Context Sensitive Thresholding Technique for Automatic Image Segmentation   | ICCIDM 2014 Conference, VSSUT, Odhisa, India, December 20-21(2014),Computational Intelligence in Data Mining - Volume 2,Smart Innovation, Systems and Technologies Volume 32, 2015, pp 19-25 | Anshu Singla, Swarnajyoti Patra                 |
| 5.     | Offline Handwritten Gurmukhi Character Recognition System using RBF-SVM   | International Workshop on Document Analysis and Recognition, IISc, Bangalore, 14 DEC 2014 (Accepted for publications in ACM Digital Library).  | Munish Kumar, M. K. Jindal and R. K. Sharma     |
| 6.     | Performance analysis of zone based features for online handwritten Gurmukhi script recognition using support vector machine | In Proc: Progress in Systems Engineering Advances in Intelligent Systems and Computing Volume 330, 747-753, August 2014  | Karun Verma and R. K. Sharma                    |
| 7.     | Mobile agent information security in ad-hoc network   | April 2014, doi: 10.1109/ICCPEIC.2014.6915343 (IEEE), pp.77-80,  | Jasleen Kaur, Sharad Saxena, Anu Jain           |
| 8.     | Securing mobile agent's information in ad-hoc network   | Sept 25-26, 2014, doi: 10.1109/CONFLUENCE.2014.6949352 pp. 442-446, (IEEE)   | Jasleen Kaur, Sharad Saxena, Mohd Abuzar Sayeed |
| 9.     | Data agglomeration in wireless sensor networks  | Dec 11-13, 2014, International Conference on Parallel, Distributed and Grid  | Sandhu Jasminder Kaur, Saxena Sharad            |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors  |
|--------|--|---|--|
|        |  | Computing (PDGC), 2014, pp.285-289 (IEEE).  |  |
| 10.    | Challenges and issues in underwater acoustics sensor networks: A review  | Dec 11-13, 2014, International Conference on Parallel, Distributed and Grid Computing (PDGC), pp. 251-255 (IEEE).   | Jindal Himanshu, Saxena Sharad, Singh Singara                |
| 11.    | Acoustic communication characteristics in UWDBCSN  | Dec 11-13, 2014, International Conference on Parallel, Distributed and Grid Computing (PDGC), pp. 176-180 (IEEE).   | Saxena Sharad, Mehta Deepak, Kaur Jasminder, Jindal Himanshu |
| 12.    | "Modeling and Performance Estimation of Static Step Topology Under Distributed Environment"                          | In Proceedings of 101 <sup>th</sup> Indian Science Congress 2014 Held on Feb. 3-7, 2013, University of Jammua, Jammu, India.  | Zaidi Taskeen  |
| 13.    | "Implementation of Bankers' Algorithm for Avoidance of Deadlock Across National Knowledge Network (NKN) through UML" | In Proceedings of International Conference of the 8 <sup>th</sup> INDIACOM on Computing for Sustainable Global Development, (ISBN 978-93-80544-06-9), PP. 745-747, Organised by Bharti Vidyapeeth Institute of Computer Application and Management, New Delhi from 5-7 <sup>th</sup> March 2014 | Zaidi Taskeen, Saxena Vipin                                  |
| 14.    | Necessary and Sufficient condition for L1-convergence of certain sine sums,  | international Conference on Special Functions and their Applications Thapar Institute of Engineering & Technology University, Patiala, 2014 , 27  | Sandeep Kaur and Jatinderdeep Kaur                           |
| 15.    | Fixed Point Theorems for $\alpha$ - $\psi$ - contractive mappings,   | International Conference on Special Functions and their Applications Thapar Institute of Engineering & Technology University, Patiala, 2014 , 24  | Kapil Chawla and Jatinderdeep Kaur.                          |
| 16.    | Rational type in complex valued metric spaces with applications,   | International Conference on Special Functions and their Applications Thapar Institute of Engineering & Technology University, Patiala, 2014 , 26.   | Priya Shahi, Jatinderdeep Kaur and S.S. Bhatia               |
| 17.    | Lebesgue Integrability of Fuzzy Trigonometric Sine Series  | International Conference on Mathematical Sciences, Sathyabama University, Chennai, 2014, 491-494  | Sandeep Kaur and Jatinderdeep Kaur                           |
| 18.    | Analysis of various direction lifting schemes for JPEG2000 Standard  | IEEE International Conference on Recent Advances and Innovations in Engineering, Jaipur, May 9-11, 2014, pp 1-6   | Chirag Garg and Singara Singh Kasana                         |
| 19.    | Challenges and Issues in Underwater Acoustics Sensor Networks: a review  | IEEE International Conference on Parallel, Distributed and Grid Computing, Solan (HP), 16-17 Dec 2014, pp 251-255   | Himanshu Jindal, Sharad Saxena, Singara Singh Kasana         |
| 20.    | A Novel Image Zooming Technique Using Wavelet Coefficients   | International Conference on Recent Cognizance in Wireless Communication & Image Processing, Jaipur, 16-17 Jan, 2015   | Himanshu Jindal, Singara Singh Kasana, Sharad Saxena         |

#### Publication of papers in conference proceedings and other publications

| S. No. | Title of the paper  | Name of the conference with venue, date and year, page nos.  | Name of the authors                                   |
|--------|---|--|---|
| 1      | Optimal, Maintenance of Scheduling of Textile Weaving Process | National Meet of Research Scholars in Mathematical Sciences held at IIT, Roorkee from December 19-23, 2009 (Awarded best | Manwinder Kaur, A. K. Lal, S. S. Bhatia & A. S. Reddy |



| S. No. | Title of the paper  | Name of the conference with venue, date and year, page nos.  | Name of the authors  |
|--------|---|--|--|
|        |   | paper)   |  |
| 2      | Availability Analysis of Polytube Industry  | National conference on mathematical modeling and simulation (MMSim10) held from March 20 - 21, 2010 at Department of Mathematics, Guru Jambheshwar University of Science and Technology, Hissar. | Shakuntala, Rachana Khurana, A. K. Lal, S. S. Bhatia, and Jai Singh, |
| 3      | Rearrangement of strokes in recognition of Online Handwritten Gurumukhi words   | Published in IEEE Proceedings of 10th International Conference on Document Analysis and Recognition (ICDAR-2009) held at Barcelona, Spain, pp. 1241-1245, July 26-29, 2009.                      | Anuj Sharma, Rajesh Kumar, R. K. Sharma                              |
| 4.     | Fuzzy Genetic Optimal Control for Four Degree of Freedom Robotic Arm Movement   | Published and presented at World Congress on Science, Engineering and Technology held at Bangkok, Thailand pp: 409-412, December 22-25, 2009.  | Vijay Banga;Yaduvir Singh;Rajesh Kumar                               |
| 5      | A Heuristic for Multi-Objective Chinese Postman Problem   | 39th International Conference on Computers and Industrial Engineering University of Technology of Troyes, Troyes, France DOI:10.1109/ICCIE.2009.5223529  | M. K. Sharma Satya Prakash; Amarinder Singh;                         |
| 6      | An Efficient Heuristic for Multi-Objective Bulk Transportation Problem  | 39th International Conference on Computers and Industrial Engineering University of Technology of Troyes, Troyes, France DOI:10.1109/ICCIE.2009.5223526  | M. K. Sharma Satya Prakash; Amarinder Singh;                         |
| 7      | Mathematical Modelling of HIV/TB Coinfection: Effect of Treatment and Awareness",   | Proceeding of International Conference on Challenges and Applications of Mathematics in Science and Technology (CAMIST), p 796-804 (2010).   | Navjot Kaur, Mini Ghosh  |
| 8      | Challenges in Segmentation of Text in Handwritten   | BAIP 2010, Kerala, March, 2010, CCIS 70, 2010, 388, Springer-Verlag Berlin Heidelberg 2010   | Rajiv Kumar; Amardeep Singh  |
| 9      | Detection and Segmentation of Lines and Words in Gurmukhi Handwritten Text  | IEEE 2nd International Advanced Computing Conference, Feb 2010, Thapar Institute of Engineering & Technology University, 353, IEEE Xplore Digital Library  | Rajiv Kumar;Amardeep Singh;  |
| 10     | Explicit Exact Solutions of a Non Evolution Equation  | Interdisciplinary Mathematics on Interdisciplinary Mathematical and Techniques (IMST 2009 - FIM XVIII), August 2-4, 2009   | R K Gupta K Singh  |
| 11     | Modified b-equation: Classical Lie Approach and Exact Solution  | Interdisciplinary Mathematics on Interdisciplinary Mathematical and Techniques (IMST 2009 - FIM XVIII), August 2-4, 2009   | R K Gupta Sachin Kumar   |
| 12     | A Priori Error Estimates for a Three-step Taylor Galerkin Finite Element Method for a Time-dependent Singularly Perturbed Convection-Diffusion equation | Indo-German Conference on PDE, Scientific Computing and Optimization in Applications, October 07-09, 2009, IIT Kanpur.   | Vivek Sangwan, B. V. Rathish Kumar, S. K. Murthy, Mohit Nigam        |
| 13     | Integrability and   | Eighteenth International Conference of   | Jatinderdeep kaur  |

| S. No. | Title of the paper   | Name of the conference with venue, date and year, page nos.   | Name of the authors                   |
|--------|--|---|---------------------------------------|
|        | convergence of double sine series  | Forum for Interdisciplinary Mathematics on Interdisciplinary Mathematical and Statistical Techniques (IMST 2009-FIM XVIII) held at JUIT, Solan, August 02-04, 2009. |                                       |
| 14     | Algorithm for fuzzy efficient solutions for bi-objective warehouse problem | 8 <sup>th</sup> triennial Conference of Association of Asian Pacific Operational Research Society held at Jaipuriya Institute of Management, Jaipur Dec. 6-9, 2009. | Amit Kumar, Anila Gupta, M. K. Sharma |

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| Sr. No. | Title   | Author(s)  | Journal                      | Volume, Pages, Year                   | Impact Factor | Citation |
|---------|---|--|------------------------------|---------------------------------------|---------------|----------|
| 1       | Multiferroic properties of 0.05 NZF-0.95 Ba0.9-3x/2Sr0.1LaxTiO3 magnetoelectric composites  | Rani, R., Juneja, J.K., Singh, S., Raina, K.K., Prakash, C.                | Advanced Materials Letters   | 5 (4), pp. 229-233, (2014)            | --            | 0        |
| 2       | Effect of dispersion of gold nanoparticles on the optical and electrical properties of discotic liquid crystal                              | Supreet, Pratibha, R., Kumar, S., Raina, K.K.                              | Liquid Crystals              | IN PRESS, 2014                        | 1.959         | 0        |
| 3       | Electrically modulated fluorescence in optically active polymer stabilised cholesteric liquid crystal shutter                               | Kumar, R., Raina, K.K.   | Liquid Crystals              | 41 (2), pp. 228-233, 2014             | 1.959         | 1        |
| 4       | Effect of solvent polarity on the self-assembly and dielectric dynamics of non-aqueous lyotropic liquid crystalline phases                  | Shukla, R.K., Raina, K.K.  | Liquid Crystals              | Article in Press., (2014)             | 1.959         | 0        |
| 5       | Enhanced ordering in polymer stabilised ferroelectric liquid crystal guest-host composites: evidence by polarised fluorescence spectroscopy | Kumar, R., Raina, K.K.   | Liquid Crystals              | Article in Press. (2014)              | 1.959         | 0        |
| 6       | Multiwall carbon nanotubes doped ferroelectric liquid crystal composites: A study of modified electrical behavior                           | Neeraj, Raina, K.K.  | Physica B: Condensed Matter, | 434 (1), pp. 1-6., (2014)             | 1.327         | 0        |
| 7       | High DC resistivity in microwave sintered Li0.49Zn0.02Mn0.06Fe2.43O4 ferrites   | Kumar, P., Juneja, J.K., Prakash, C., Singh, S., Shukla, R.K., Raina, K.K. | Ceramics International       | 40 (1 PART B), pp. 2501-2504., (2014) | 1.751         | 0        |
| 8       | Electro-optic and molecular relaxation behaviour of fluoro substituted achiral unsymmetrical four-ring bent-core mesogen                    | Paul, M.K., Kumar, R., Chakraborty, N., Raina, K.K., Rao, N.V.S.           | Liquid Crystals,             | Article in Pres., 2013).              | 1.959         | 0        |
| 9       | Observation of memory behaviour in cadmium sulphide nanorods doped ferroelectric liquid crystal mixture                                     | Chaudhary, A., Malik, P., Mehra, R., Raina, K.K.                           | Phase Transitions            | 86 (12), pp. 1256-1266, (2013)        | 1.006         | 0        |
| 10      | Influence of ZnO nanoparticle concentration on electro-optic and dielectric properties of ferroelectric liquid crystal mixture              | Chaudhary, A., Malik, P., Mehra, R., Raina, K.K.                           | Journal of Molecular Liquids | 188, pp. 230-236, (2013)              | 1.684         | 0        |

| Sr. No. | Title   | Author(s)  | Journal  | Volume, Pages, Year               | Impact Factor | Citation |
|---------|---|--|--|-----------------------------------|---------------|----------|
| 11      | Effect of transition metal salt additive on the structural packing and thermal stability of the non-aqueous lyotropic mesophases  | Shukla, R.K., Raina, K.K.                                    | Liquid Crystals,                                       | 40 (11), pp. 1581-1585. (2013)    | 1.959         | 0        |
| 12      | Effect of Sm on dielectric, ferroelectric and piezoelectric properties of BPTNZ system  | Kumar, P., Juneja, J.K., Prakash, C., Raina, K.K., Singh, S. | Physica B: Condensed Matter,                           | 426, pp. 112-117., (2013)         | 1.327         | 0        |
| 13      | Study on structural, dielectric, ferroelectric and piezoelectric properties of Ba doped Lead Zirconate Titanate Ceramics  | Dipti, Juneja, J.K., Singh, S., Raina, K.K., Prakash, C      | Physica B: Condensed Matter                            | 431, pp. 109-114., (2013),        | 1.327         | 0        |
| 14      | Structural, electrical, magnetic and magnetoelectric properties of composites   | Rani, R., Juneja, J.K., Singh, S., Prakash, C., Raina, K.K.  | Journal of Magnetism and Magnetic Materials            | 345, pp. 55-59., 2013             | 1.826         | 0        |
| 15      | Dielectric, ferroelectric, magnetic and magnetoelectric properties of 0.1Ni <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> -0.9Pb 1-3x/2SmxZr <sub>0.65</sub> Ti <sub>0.35</sub> O <sub>3</sub> magnetoelectric composites | Rani, R., Juneja, J.K., Singh, S., Raina, K.K., Prakash, C   | Ceramics International                                 | 39 (7), pp. 7845-7851, (2013)     | 1.751         | 0        |
| 16      | Electro-optical studies in a ferroelectric liquid crystal mixture   | Singh, R., Raina, K.K.                                       | International Journal of Modern Physics b,             | 27 (19), art. no. 1350038, (2013) | 1.006         | 0        |
| 17      | Enhanced stability of the columnar matrix in a discotic liquid crystal by insertion of ZnO nanoparticles  | Supreet, Kumar, S., Raina, K.K., Pratibha, R.                | Liquid Crystals  | 40 (2), pp. 228-236., (2013)      | 1.959         | 2        |
| 18      | Study of 0.1Ni <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> -0.9Pb 1-3x/2La xZr <sub>0.65</sub> Ti <sub>0.35</sub> O <sub>3</sub> magnetoelectric composites   | Rani, R., Juneja, J.K., Singh, S., Raina, K.K., Prakash, C.  | Journal of Magnetism and Magnetic Materials            | 325, pp. 47-51., (2013)           | 1.826         | 3        |
| 19      | Nickel nanoparticles doped ferroelectric liquid crystal composites  | Neeraj, Raina, K.K.  | Optical Materials                                      | 35 (3), pp. 531-535. (2013)       | 1.918         | 2        |
| 20      | Structural, electrical and magnetic properties of microwave processed Ni <sub>0.80</sub> Zn <sub>0.20</sub> Fe <sub>2</sub> O <sub>4</sub>  | Rani, R., Singh, S., Raina, K.K., Prakash, C.                | Key Engineering Materials                              | 547, pp. 25-30., (2013)           |               | 0        |
| 21      | Mechanism for the formation of low aspect ratio of La(OH) <sub>3</sub> nanorods in aqueous solution: Thermal and frequency dependent behaviour  | Kohli, P.S., Kumar, M., Raina, K.K., Singla, M.L.            | Journal of Materials Science: Materials in Electronics | 23 (12), pp. 2257-2263., (2012)   | 1.486         | 1        |

| Sr. No. | Title   | Author(s)   | Journal   | Volume, Pages, Year                           | Impact Factor | Citation |
|---------|---|---|---|---|---------------|----------|
| 22      | Electrooptic and dielectric studies in cadmium sulphide nanorods/ferroelectric liquid crystal mixtures  | Malik, P., Chaudhary, A., Mehra, R., Raina, K.K.            | Advances in Condensed Matter Physics                    | 2012, art. no. 853160, (2012)                 | 1.175         | 3        |
| 23      | Behaviour of an ultrathin ferroelectric liquid crystal Langmuir-Blodgett film at an air-water and air-solid interface   | Kaur, R., Bhullar, G.K., Raina, K.K.                        | Liquid Crystals   | 39 (11), pp. 1375-1380, (2012)                | 1.959         | 1        |
| 24      | Synthesis and electrical behavior study of Mn 3O 4 nanoceramic powder for low temperature NTC thermistor  | Kohli, P.S., Devi, P., Reddy, P., Raina, K.K., Singla, M.L. | Journal of Materials Science: Materials in Electronics, | 23 (10), pp. 1891-1897, (2012)                | 1.486         | 1        |
| 25      | Changes in the electro-optical behaviour of ferroelectric liquid crystal mixture via silica nanoparticles doping  | Neeraj, Kumar, P., Raina, K.K.                              | Optical Materials,                                      | 34 (11), pp. 1878-1884., (2012)               | 1.918         | 2        |
| 26      | Studies of the dielectric and ferroelectric properties of PZT: NZF magnetoelectric composite  | Rani, R., Juneja, J.K., Raina, K.K., Prakash, C.            | Journal of Ceramic Processing Research,                 | 13 (1), pp. 76-80., (2012)                    | 0.405         | 2        |
| 27      | Electro-optic and dielectric studies of silica nanoparticle doped ferroelectric liquid crystal in SmC* phase  | Chaudhary, A., Malik, P., Mehra, R., Raina, K.K.            | Phase Transitions,                                      | 2012) 85 (3), pp. 244-254. .                  | 1.006         | 5        |
| 28      | Ferroelectric, magnetic and magnetoelectric properties of ferroelectric rich Ni <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> -PbZr <sub>0.65</sub> Ti <sub>0.35</sub> O <sub>3</sub> ME composites | Rani, R., Juneja, J.K., Singh, S., Raina, K.K., Prakash, C  | Ferroelectric s,  | Letters Section, 39 (4-6), pp. 96-103. (2012) | 0.4           | 0        |
| 29      | Electro-optic, thermo-optic and dielectric responses of multiwalled carbon nanotube doped ferroelectric liquid crystal thin films   | Malik, P., Chaudhary, A., Mehra, R., Raina, K.K.            | Journal of Molecular Liquids,                           | 165, pp. 7-11. (2012)                         | 1.6           | 8        |
| 30      | Dielectric behaviour of Pb-substituted BZT ceramics   | Kumar, P., Singh, S., Juneja, J.K., Raina, K.K., Prakash, C | Bulletin of Materials Science,                          | 34 (7), pp. 1401-1405. (2011)                 | 0.5           | 0        |
| 31      | Analysis of Dielectric and Electro-optic Responses of Nanomaterials Doped Ferroelectric Liquid Crystal Mixture  | Neeraj, Kumar, P., Raina, K.K.                              | Journal of Materials Science and Technology             | 27 (12), pp. 1094-1098., 2011),               | 1.018         | 3        |
| 32      | Dielectric properties of Zr substituted BST ceramics  | Rani, R., Singh, S., Juneja, J.K., Raina, K.K., Prakash, C  | Ceramics International                                  | 37 (8), pp. 3755-3758. , (2011),              | 1.751         | 3        |
| 33      | Dielectric properties of 0.95 (Pb 1-3x/2 La x Zr 0.65Ti 0.35 O 3)-0.05 (Ni 0.8Zn 0.2Fe 2O 4) composites   | Rani, R., Kumar, P., Juneja, J.K., Raina, K.K., Prakash, C. | Advances in Condensed Matter Physics                    | (2011), 2011, art. no. 637170,                | 1.02          | 1        |

| Sr. No. | Title   | Author(s)  | Journal                                    | Volume, Pages, Year                             | Impact Factor | Citation |
|---------|---|--|--|---|---------------|----------|
| 34      | Analysis of dichroic dye-doped polymer-dispersed liquid crystal materials for display devices   | Kumar, P., Neeraj, Kang, S.-W., Lee, S.H., Raina, K.K.                   | Thin Solid Films,                          | (2011) 520 (1), pp. 457-463                     | 1.86          | 5        |
| 35      | Effects of CuCl <sub>2</sub> on the lyotropic liquid crystalline behavior in nonaqueous and aqueous medium  | . Raina, K.K., Shukla, R.K.  | Advances in Condensed Matter Physics,      | (2011) 2011, art. no. 174786,                   |               | 0        |
| 36      | Effect of two-stage sintering on dielectric properties of BaTi <sub>0.9</sub> Zr <sub>0.1</sub> O <sub>3</sub> ceramics   | Rani, R., Rani, R., Kumar, P., Juneja, J.K., Raina, K.K., Prakash, C.    | Phase Transitions                          | 2011), 84 (9-10), pp. 843-849.                  | 1.006         | 0        |
| 37      | Dielectric behaviour of the composite system: Multiwall carbon nanotubes dispersed in ferroelectric liquid crystal  | Shukla, R.K., Raina, K.K., Hamplová, V., Kašpar, M., Bubnov, A.          | Phase Transitions,                         | 2011) 84 (9-10), pp. 850-857.                   | 1.006         | 4        |
| 38      | Dynamic responses of dispersed ferroelectric liquid crystal composite materials   | Neeraj, Raina, K.K.  | Integrated Ferroelectric s                 | (2011) 125 (1), pp. 104-110.                    | 0.375         | 3        |
| 39      | Dielectric spectroscopy of wide temperature range nematic liquid crystal mixtures   | Kushwaha, J.K., Malik, P., Raina, K.K., Arora, V.P.                      | Molecular Crystals and Liquid Crystals,    | (2011) 541, pp. 236-242.                        | 0.58          | 0        |
| 40      | Dielectric studies and memory effect in nanoparticle doped ferroelectric liquid crystal films   | Malik, P., Chaudhary, A., Mehra, R., Raina, K.K.                         | Molecular Crystals and Liquid Crystals     | (2011), 541, pp. 243-251.                       | 0.58          | 5        |
| 41      | Thermochromic behavior of a novel nematic liquid crystal mixture: Effects of chiral doping  | Kapila, S., Raina, K.K.  | International Journal of Modern Physics B, | 2011) 25 (18), pp. 2419-2426.                   | 0.3           | 1        |
| 42      | Influence of Zr substitution on ferroelectric properties of BST ceramics  | . Rani, R., Kumar, P., Singh, S., Juneja, J.K., Raina, K.K., Prakash, C. | Ferroelectric s                            | (2011), Letters Section, 38 (4-6), pp. 108-113. | 0.4           | 1        |
| 43      | Structural, dielectric, ferroelectric and ferromagnetic properties of Ba <sub>0.9</sub> Sr <sub>0.1</sub> Zr <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> +5% Ni <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> composite | Rani, R., Singh, S., Juneja, J.K., Raina, K.K., Prakash, C.              | Ferroelectric s,                           | Letters Section, 38 (4-6), pp. 134-140, 2011)   | 0.4           | 0        |
| 44      | Influence of calcium substitution on structural and electrical properties of substituted barium titanate  | Kumar, P., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K.             | Ceramics International                     | (2011), 37 (5), pp. 1697-1700.                  | 1.751         | 6        |
| 45      | Structural and ferroelectric properties of lanthanum modified BPZT ceramics   | Kumar, P., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K.             | Materials Chemistry and Physics,           | (2011) 125 (3), pp. 660-663.                    | 2.072         | 1        |
| 46      | Ferroelectric properties of microwave processed PZT-NiZn ferrite composites   | Rani, R., Kumar, P., Singh, S., Juneja, J.K., Raina, K.K., Prakash, C.   | Integrated Ferroelectric s                 | 122 (1), pp. 45-51. (2010)                      | 0.375         | 0        |

| Sr. No. | Title   | Author(s)  | Journal                                | Volume, Pages, Year                           | Impact Factor | Citation |
|---------|---|--|--|---|---------------|----------|
| 47      | Dielectric and ferroelectric properties of BST and Ni-Zn ferrite composites   | Rani, R., Kumar, P., Singh, S., Juneja, J.K., Raina, K.K., Kotnnala, R.K., Prakash, C. | Integrated Ferroelectrics              | (2010), 122 (1), pp. 38-44.                   | 0.375         | 3        |
| 48      | Ferroelectric properties of laser ablated sm modified PCT thin films  | Singh, S., Pandey, S.K., Raina, K.K., Prakash, C.                                      | Integrated Ferroelectrics              | (2010), 122 (1), pp. 90-99.                   | 0.375         | 0        |
| 49      | Structural, dielectric and ferroelectric properties of Mn doped Ba <sub>0.80</sub> Pb <sub>0.20</sub> Ti <sub>0.90</sub> Zr <sub>0.10</sub> O <sub>3</sub> ceramics | . Kumar, P., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K.                         | Ferroelectrics                         | (2010), Letters Section, 37 (6), pp. 110-115. | 0.4           | 3        |
| 50      | Improved properties of BaTiO <sub>3</sub> ceramics prepared by ultrasonic mixing  | . Kumar, P., Singh, P., Singh, S., Juneja, J.K., Raina, K.K., Prakash, C.              | Integrated Ferroelectrics              | (2010), 122 (1), pp. 114-118.                 | 0.375         | 0        |
| 51      | Effect of zirconium substitution on structural and dielectric properties of Ba <sub>0.80</sub> Pb <sub>0.20</sub> TiO <sub>3</sub> ceramics                         | Kumar, P., Singh, S., Juneja, J.K., Raina, K.K., Husain, M., Prakash, C.               | Integrated Ferroelectrics              | (2010), 122 (1), pp. 16-22                    | 0.375         | 0        |
| 52      | Effects of samarium doping on the ferroelectric properties of modified lead zirconate titanate ceramics   | Singh, P., Singh, S., Juneja, J.K., Raina, K.K., Pant, R.P., Prakash, C.               | Integrated Ferroelectrics              | (2010), 122 (1), pp. 23-30.                   | 0.375         | 0        |
| 53      | Effects of polymer viscosity on the polymerization switching and electro-optical properties of unaligned liquid crystal/UV curable polymer composites               | Malik, P., Raina, K.K., Gathania, A.K.   | Thin Solid Films,                      | (2010) 519 (3), pp. 1047-1051.                | 1.86          | 6        |
| 54      | Electro-optic switching and dielectric spectroscopy studies of ferroelectric liquid crystals with low and high spontaneous polarization                             | Malik, P., Raina, K.K., Bubnov, A., Chaudhary, A., Singh, R.                           | Thin Solid Films,                      | (2010) 519 (3), pp. 1052-1055.                | 1.86          | 6        |
| 55      | Influence of silica nanoparticles on dielectric spectroscopy and polarization switching responses of novel ferroelectric liquid crystals                            | Neeraj, Raina, K.K.  | Phase Transitions,                     | (2010) 83 (8), pp. 615-626.                   | 1.006         | 16       |
| 56      | Dielectric and electrical investigations in pure and dyed short pitch high spontaneous polarization liquid crystals   | Khosla, S., Sood, N., Raina, K.K., Bawa, S.S.  | Molecular Crystals and Liquid Crystals | (2010), 524, pp. 119-130..                    | 0.58          | 3        |
| 57      | Relaxor ferroelectric behavior of La substituted BPZT ceramics  | Juneja, J.K., Kumar, P., Singh, S., Prakash, C., Raina, K.K.                           | Ceramics International ,               | (2010) 36 (4), pp. 1277-1281.                 | 1.968         | 2        |

| Sr. No. | Title  | Author(s)   | Journal                               | Volume, Pages, Year              | Impact Factor | Citation |
|---------|--|---|---------------------------------------|----------------------------------|---------------|----------|
| 58      | Optimal multiferroic properties and enhanced magnetoelectric coupling in SmFeO <sub>3</sub> - PbTiO <sub>3</sub> solid solutions | Singh, A., Choudhary, I., Mehta, S., Dahiya, S., Walia, C.S., Raina, K.K., Chatterjee, R.                       | Journal of Applied Physics,           | (2010) 107 (8), art. no. 084106, | 2.1           | 1        |
| 59      | Microstructure and electron properties of Sm modified lead calcium titanate ceramics   | Singh, S., Prakash, C., Raina, K.K.   | Journal of Alloys and Compounds,      | (2010) 492 (1-2), pp. 717-722.   | 2.390         | 14       |
| 60      | Synthesis and dielectric properties of substituted barium titanate ceramics  | Kumar, P., Singh, S., Spah, M., Juneja, J.K., Prakash, C., Raina, K.K.  | Journal of Alloys and Compounds,      | (2010) 489 (1), pp. 59-63.       | 2.390         | 11       |
| 61      | Synthesis and ferroelectric properties of La-substituted PZFT  | Singh, P., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K., Kumar, V., Pant, R.P.                             | Physica B: Condensed Matter,          | (2010) 405 (1), pp. 10-14.       | 1.006         | 3        |
| 62      | Dichroic dye-dependent studies in guest-host polymer-dispersed liquid crystal films  | Malik, P., Raina, K.K.  | Physica B: Condensed Matter,          | (2010) 405 (1), pp. 161-166      | 1.006         | 7        |
| 63      | Socio-economic profile of hill women in relation to farm activities in Himachal Pradesh-a case study                             | Gupta, T., Gupta, R.K., Raina, K.K.   | Range Management and Agroforestry     | 2009) 30 (2), pp. 104-108.       | 0.1           | 1        |
| 64      | Women's involvement in farm activities and their participation in decision making in Jammu & Kashmir, India                      | Gupta, T., Gupta, R.K., Raina, K.K.   | Ecology, Environment and Conservation | (2009), 15 (3), pp. 495-501      | 0.1           | 0        |
| 65      | Dielectric studies of carbon nanotube doped ferroelectric liquid crystal films   | Malik, P., Chaudhary, A., Raina, K.K.   | Asian Journal of Chemistry,           | (2009) 21 (10), pp. S095-S098.   | 1.4           | 3        |
| 66      | Influence of samarium substitution on dielectric properties of barium titanate based ceramics                                    | Kumar, P., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K.  | Modern Physics Letters B,             | (2009) 23 (28), pp. 3419-3425    | 0.479         | 1        |
| 67      | Morphological and dielectric behavior of carbon nanotube-ferroelectric liquid crystal composite                                  | Sharma, D., Tyagi, S., Raina, K.K.  | Advanced Materials Research           | (2009), 67, pp. 167-172.         | 0.89          | 1        |
| 68      | Aerobic microbial manufacture of nanoscale selenium: Exploiting nature's bio-nanomineralization potential                        | . Prakash, N.T., Sharma, N., Prakash, R., Raina, K.K., Fellowes, J., Pearce, C.I., Lloyd, J.R., Patrick, R.A.D. | Biotechnology Letters,                | 2009) 31 (12), pp. 1857-1862.    | 0.783         | 9        |



| Sr. No. | Title   | Author(s)   | Journal                                      | Volume, Pages, Year                            | Impact Factor | Citation |
|---------|---|---|--|--|---------------|----------|
| 69      | DSC studies on the curing kinetics of chitosan-alanine using glutaraldehyde as crosslinker  | Kumari, K., Raina, K.K., Kundu, P.P.                                    | Journal of Thermal Analysis and Calorimetry, | (2009) 98 (2), pp. 469-476.                    | 1.982         | 5        |
| 70      | Observations on lyotropic liquid crystalline behavior of a cationic surfactant and polar solvent in a nonaqueous medium                     | Shukla, R.K., Raina, K.K.   | International Journal of Modern Physics B,   | (2009) 23 (25), pp. 5075-5083.                 | 1.006         | 3        |
| 71      | Effect of two-stage sintering on dielectric and ferroelectric properties of Ba <sub>0.80</sub> Pb <sub>0.20</sub> TiO <sub>3</sub> Ceramics | Kumar, P., Singh, P., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K. | Ferroelectric s                              | (2009), Letters Section, 36 (3-4), pp. 92-101. | 0.3           | 1        |
| 72      | Effect of multi-walled carbon nanotubes on viability and superoxide dismutase expression in human wound pathogens                           | Saxena, S., Gomber, C., Raina, K.K.                                     | International Journal of Nanoscience ,       | (2009) 8 (4-5), pp. 415-423                    | 0.8           | 0        |
| 73      | Dielectric behaviour of La substituted BPZT ceramics  | Kumar, P., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K.            | Physica B: Condensed Matter,                 | (2009) 404 (16), pp. 2126-2129.                | 1.135         | 3        |
| 74      | Ferroelectric properties of substituted barium titanate ceramics  | Kumar, P., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K.            | Physica B: Condensed Matter,                 | (2009) 404 (12-13), pp. 1752-1756.             | 1.135         | 13       |
| 75      | Dielectric studies of samarium modified (Pb)(Zr, Ti, Fe, Nb)O <sub>3</sub> ceramic system   | Singh, P., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K.            | Modern Physics Letters B,                    | (2009) 23 (11), pp. 1437-1442..                | 0.479         | 1        |
| 76      | Morphological responses of polymer dispersed liquid crystal composites for photonic display applications                                    | Kumar, R., Supreet, Raina, K.K.   | AIP Conference Proceedings,                  | (2013) 1536, pp. 743-744                       | --            | 0        |
| 77      | Dielectric study and multiferroic behaviour of Fe and Sm doped bismuth titanate   | Sharma, J.P., Bhardwaj, S., Kumar, R., Raina, K.K., Kotnala, R.K.       | AIP Conference Proceedings,                  | (2013) 1536, pp. 1003-1004.                    | --            | 0        |
| 78      | Investigations on polyaniline-TiO <sub>2</sub> nano-composite Langmuir Blodgett thin films  | Bhullar, G.K., Kaur, R., Raina, K.K.                                    | AIP Conference Proceedings,                  | (2013) 1536, pp. 491-492.                      | --            | 0        |
| 79      | Raman spectroscopy studies of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> nanocrystals prepared by mechanical alloying                  | .. Bhardwaj, S., Sharma, J.P., Raina, K.K., Kumar, R.                   | AIP Conference Proceedings, ---              | (2013)1536, pp. 155-156                        | ---           | 0        |
| 80      | Gold nanoparticles in columnar matrix of discotic liquid crystal  | Supreet, Kumar, R., Pratibha, R., Kumar, S., Raina, K.K.                | AIP Conference Proceedings,                  | (2013) 1536, pp. 67-68                         | --            | 0        |

| Sr. No. | Title   | Author(s)  | Journal  | Volume, Pages, Year          | Impact Factor | Citation |
|---------|---|--|--|------------------------------|---------------|----------|
| 81      | Surface viscoelastic properties of spread ferroelectric liquid crystal monolayer on air-water interface                           | Kaur, R., Bhullar, G.K., Raina, K.K.                                     | AIP Conference Proceedings,                    | (2013) 1536, pp. 1377-1378.  | --            | 0        |
| 82      | Dielectric properties of rare earth (Sm and La) substituted lead zirconate titanate (PZT) ceramics                                | Dipti, Singh, S., Juneja, J.K., Raina, K.K., Prakash, C.                 | AIP Conference Proceedings                     | (2013), 1536, pp. 1252-1253. | --            | 0        |
| 83      | Helix dynamics of chirality induced liquid crystal mixture  | Kapila, S., Raina, K.K.  | AIP Conference Proceedings,                    | (2011) 1393, pp. 283-284.    | ---           | 0        |
| 84      | Polymer stabilized liquid crystals: Materials, physics and applications   | . Kumar, R., Raina, K.K.   | AIP Conference Proceedings,                    | (2011) 1393, pp. 46-49.      | --            | 0        |
| 85      | Effects of nano-particle doping on the physical properties of ferroelectric liquid crystals                                       | Neeraj, Raina, K.K.  | AIP Conference Proceedings,                    | (2011) 1393, pp. 337-338     | ---           | 1        |
| 86      | Improved dielectric properties via mechano-chemical activation in Ba <sub>0.80</sub> Pb <sub>0.20</sub> TiO <sub>3</sub> ceramics | . Kumar, P., Rani, R., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K. | AIP Conference Proceedings,                    | (2011) 1393, pp. 339-340     | ---           | 0        |
| 87      | Observation of lyotropic liquid crystalline phases in some transition metal salt dispersed soft non-aqueous systems               | Shukla, R.K., Raina, K.K.  | AIP Conference Proceedings,                    | (2011) 1393, pp. 341-342     | ---           | 0        |
| 88      | Improved properties of Pb based BLZT ferroelectric ceramics   | . Kumar, P., Singh, S., Juneja, J.K., Raina, K.K., Prakash, C            | AIP Conference Proceedings,                    | (2011) 1372, pp. 61-64.      | ---           | 0        |
| 89      | Effect of sintering temperature on dielectric properties of iron deficient nickel-ferrite   | Rani, R., Singh, S., Juneja, J.K., Prakash, C., Raina, K.K.              | AIP Conference Proceedings,                    | (2011) 1372, pp. 216-219     | ---           | 0        |
| 90      | Ferroelectric properties of La substituted PZT ceramics   | Rani, R., Juneja, J.K., Raina, K.K., Prakash, C.                         | AIP Conference Proceedings,                    | (2011) 1372, pp. 147-149.    | 0             | 0        |
| 91      | Magnetic and electric properties of BFO-NFO nanocomposites  | Imanpreet Kaur, N.K Verma  | Materials Science in Semiconduct or Processing | 3, 32-35, (2015)             | 1.761         | 0        |

| Sr. No. | Title  | Author(s)                                       | Journal   | Volume, Pages, Year          | Impact Factor | Citation |
|---------|--|---|---|------------------------------|---------------|----------|
| 92      | Study on novel, superparamagnetic and biocompatible PEG/KFeO <sub>2</sub> nanocomposite                          | Lavanya Khanna, N. K. Verma                     | Journal of Applied Biomedicine                          | 13, 25-32, 2015              | 1.964         | 0        |
| 93      | Room temperature magnetism induced in Co-doped ZnS nanoparticles   | Sunil Kumar, N.K. Verma                         | Journal of Superconductivity and Novel Magnetism        | 28, 137-142, (2015)          | 0.930         | 0        |
| 94      | Structural, magnetic, dielectric and magnetodielectric properties of Gd-doped CdS nanorods                       | Kaur, K., Lotey, G.S., Verma, N.K.              | Science in Semiconductor or Processing                  | 19, 6-10, 2014               | 1.338         | 0        |
| 95      | Structural, optical and magnetic properties of cobalt-doped CdSe nanoparticles                                   | Jaspal Singh, N. K. Verma,                      | Bulletin of Materials Science,                          | 37, 1-7, 2014,.              | 0.870         | 9        |
| 96      | Enhancement of Room Temperature Ferromagnetism in Cd <sub>1-x</sub> Ni <sub>x</sub> Se nanoparticles             | Jaspal Singh, Sanjeev Kumar, NK Verma           | Journal of Materials Science: Materials in Electronics  | 25 (2014): 2267-2272         | 1.966         | 1        |
| 97      | Structural, optical and magnetic properties of cobalt-doped CdSe nanoparticles                                   | Jaspal Singh, N. K. Verma,                      | Bulletin of Materials Science,                          | 37, 1-7, 2014,.              | 0.870         | 9        |
| 98      | Correlation Between Structure and Ferromagnetism in Cobalt-Doped CdSe Nanorods.                                  | Jaspal Singh, N. K. Verma,                      | Journal of Superconductivity and Novel Magnetism,       | 27:2371-2377, 2014           | 0.930         | 0        |
| 99      | Biocompatibility and superparamagnetism in novel silica/CaFe <sub>2</sub> O <sub>4</sub> nanocomposite           | Lavanya Khanna, N. K. Verma                     | Materials Letters                                       | 128C, 376-379, 2014.         | 2.269         | 1        |
| 100     | Optical and magnetic properties of Fe-doped CdS dilute magnetic semiconducting nanorods                          | Kamaldeep aur, Gurmeet Singh Lotey, N. K. Verma | Journal of Materials Science: Materials in Electronics, | 25, 2605-2610, June 2014.    | 1.966         | 3        |
| 101     | Room temperature investigations on optical and magnetic studies of Zn <sub>1-x</sub> Co <sub>x</sub> S Nanorods  | Sunil Kumar, N.K. Verma,                        | Journal of Magnetism & Magnetic Materials               | 374, 548-552, (October 2014) | 2.002         | 0        |
| 102     | Ni-doping on optical and magnetic properties of solvothermally synthesized ZnS wurtzite nanorods                 | Kumar, S., Verma, N.K                           | Journal of Materials Science: Materials in Electronics  | 25 (2), 785-790, 2014        | 1.486         | 0        |
| 103     | Ferromagnetic and weak superparamagnetic like behavior of Ni-doped ZnS nanocrystals synthesized by reflux method | Kumar, S., Verma, N.K                           | Journal of Materials Science: Materials in Electronics  | 25 (2), 1132-1137, 2014      | 1.486         | 0        |

| Sr. No. | Title   | Author(s)  | Journal  | Volume, Pages, Year                        | Impact Factor | Citation |
|---------|---|--|--|--|---------------|----------|
| 104     | Ferromagnetism in Gd-doped CdS dilute magnetic semiconducting nanorods  | K., Lotey, G.S., Verma, N.K.                         | Journal of Materials Science: Materials in Electronics | 25 (1), 311-3162014                        | 1.486         | 0        |
| 105     | Synthesis, Characterization and Biocompatibility of Potassium Ferrite Nanoparticles                                 | Khanna, L., Verma, N.K.                              | Journal of Materials Science and Technology            | 30 (1), 30-36, 2014                        | 1.198         | 0        |
| 106     | Structural, optical and magnetic properties of cobalt-doped CdS dilute magnetic semiconducting nanorods             | Kaur, K., Lotey, G.S., Verma, N.K.                   | Materials Chemistry and Physics                        | 143 (1), 41-46, 2013                       | 2.072         | 0        |
| 107     | Synthesis and characterization of BiFeO <sub>3</sub> nanowires and their applications in dye-sensitized solar cells | Lotey, G.S., Verma, N.K.                             | Materials Science in Semiconductor Processing          | 21, 206-211, 2013                          | 1.338         | 0        |
| 108     | Study on CaCO <sub>3</sub> -coated ZnO nanoparticles based dye sensitized solar cell                                | Kaur, M., Verma, N.K.                                | Journal of Materials Science: Materials in Electronics | 24 (12) 4980-4986, 2013                    | 1.486         | 0        |
| 109     | Diffuse reflectance and reflective flexible coatings of capped ZnS nanoparticles                                    | Kumar, S., Verma, N.K., Singla, M.L                  | Materials Chemistry and Physics                        | 142 (2-3), 734-739, 2013                   | 2.072         | 0        |
| 110     | CaCO <sub>3</sub> /TiO <sub>2</sub> Nanoparticles Based Dye Sensitized Solar Cell                                   | Kaur, M., Verma, N.K.                                | Journal of Materials Science and Technology            | 2013                                       | 1.198         | 0        |
| 111     | Ferromagnetism in Fe-doped CdSe nanorods prepared by solvothermal route   | Singh, J., Verma, N.K.                               | Journal of Materials Science: Materials in Electronics | 24 (11), 4464-4470, 2013                   | 1.486         | 0        |
| 112     | PEG/CaFe <sub>2</sub> O <sub>4</sub> nanocomposite: Structural, morphological, magnetic and thermal analyses        | Khanna, L., Verma, N.K.                              | Physica B: Condensed Matter                            | 427, 68-75, 2013                           | 1.327         | 1        |
| 113     | Magnetodielectric properties of rare earth metal-doped BiFeO <sub>3</sub> nanoparticles                             | Lotey, G.S., Verma, N.K.                             | Journal of Materials Science: Materials in Electronics | 24 (10), 3723-3729, 2013                   | 1.486         | 0        |
| 114     | Magnetoelectric coupling in multiferroic Tb-doped BiFeO <sub>3</sub> nanoparticles                                  | Lotey, G.S., Verma, N.K.                             | Materials Letters                                      | 111, 55-58, 2013                           | 2.224         | 10       |
| 115     | Structural and photoluminescence properties of Eu-doped ZnS nanoparticles   | Singh Lotey, G., Jindal, Z., Singhi, V., Verma, N.K. | Materials Science in Semiconductor Processing          | 16 (6), December 2013, Pages 2044-20502013 | 1.338         | 3        |

| Sr. No. | Title   | Author(s)                            | Journal  | Volume, Pages, Year     | Impact Factor | Citation |
|---------|---|--------------------------------------|--|-------------------------|---------------|----------|
| 116     | Performance of Eu <sub>2</sub> O <sub>3</sub> coated ZnO nanoparticles-based DSSC   | Kaur, M., Verma, N.K.                | Journal of Materials Science: Materials in Electronics | 24, 3617-3623, 2013     | 1.486         | 1        |
| 117     | Room temperature ferromagnetism in Tb-doped ZnO dilute magnetic semiconducting nanoparticles  | Lotey, G.S., Singh, J., Verma, N.K.  | Journal of Materials Science: Materials                | 24 (9) 3611-3616, 2013  | 1.486         | 0        |
| 118     | Synthesis, characterization and in vitro cytotoxicity study of calcium ferrite nanoparticles  | Khanna, L., Verma, N.K.              | Materials Science in Semiconductor or Processing       | 16 (6), 1842-1848, 2013 | 1.338         | 1        |
| 119     | Magnetoelectric coupling in multiferroic BiFeO <sub>3</sub> nanowires   | Lotey, G.S., Verma, N.K.             | Chemical Physics Letters                               | 579, 78-84, 2013        | 2.145         | 1        |
| 120     | Gd-doped BiFeO <sub>3</sub> nanoparticles - A novel material for highly efficient dye-sensitized solar cells  | Lotey, G.S., Verma, N.K.             | Chemical Physics Letters                               | 574, 71-77, 2013        | 2.145         | 2        |
| 121     | Size-dependent magnetic properties of calcium ferrite nanoparticles   | Khanna, L., Verma, N.K.              | Journal of Magnetism and Magnetic Materials            | 336, 1-7, 2013          | 1.826         | 4        |
| 122     | Multiferroism in rare earth metals-doped BiFeO <sub>3</sub> nanowires   | Lotey, G.S., Verma, N.K.             | Superlattices and Microstructures                      | 60, 60-66, 2013         | 1.564         | 2        |
| 123     | Structural and optical properties of Eu <sub>2</sub> O <sub>3</sub> coated TiO <sub>2</sub> nanoparticles and their application for dye sensitized solar cell | Kaur, M., Verma, N.K.                | Journal of Materials Science: Materials in Electronics | 24 (4), 1121-1127, 2013 | 1.486         | 2        |
| 124     | Multiferroic properties of Tb-doped BiFeO <sub>3</sub> nanowires  | Lotey, G.S., Verma, N.K.             | Journal of Nanoparticle Research                       | 15, 1553, 2013          | 2.175         | 10       |
| 125     | Study on reflectivity and photostability of Al-doped TiO <sub>2</sub> nanoparticles and their reflectors  | Kumar, S., Verma, N.K., Singla, M.L. | Journal of Materials Research                          | 28 (03), 521-528, 2013  | 1.40          | 0        |
| 126     | Phase-dependent multiferroism in Dy-doped BiFeO <sub>3</sub> nanowires  | Lotey, G.S., Verma, N.K.             | Superlattices and Microstructures                      | 53, 184-194, 2013       | 1.564         | 9        |
| 127     | Synthesis and characterization of Fe-doped CdSe nanoparticles as dilute magnetic semiconductor  | Singh, J., Verma, N.K.               | Journal of Superconductivity and Novel Magnetism       | 25 (7), 2425-2430, 2012 | 0.702         | 1        |

| Sr. No. | Title   | Author(s)  | Journal  | Volume, Pages, Year     | Impact Factor | Citation |
|---------|---|--|--|-------------------------|---------------|----------|
| 128     | Highly reflective titania nanoparticle-based coating  | Kumar, S., Verma, N.K., Singla, M.L.                                   | Pigment and Resin Technology                           | 41 (3), 156 - 162, 2012 | 0.616         | 0        |
| 129     | Size dependent reflective properties of TiO <sub>2</sub> nanoparticles and reflectors made thereof                                | Kumar, S., Verma, N.K., Singla, M.L.                                   | Digest Journal of Nanomaterials and Biostructures      | 7 (2), 607 - 619, 2012  | 1.09          | 7        |
| 130     | Room temperature ferromagnetic behaviour of indiumdoped SnO <sub>2</sub> dilute magnetic semiconductor nanocrystalline thin films | Singh, S., Jahan, N., Khanna, A., Lotey, G.S., Verma, N.K.             | Chalcogenide Letters                                   | 9, 73-76, 2012          | 0.688         | 1        |
| 131     | Structural, magnetic, and electrical properties of Gd-doped BiFeO <sub>3</sub> nanoparticles with reduced particle size           | Lotey, .S., Verma, N.K.  | Journal of Nanoparticle Research                       | 14, 742, 2012           | 1.327         | 20       |
| 132     | Electrochemical synthesis of copper nanowires in anodic alumina membrane and their impedance analysis                             | Kumar, S., Saini, D., Lotey, G.S., Verma, N.K.                         | Superlattices and Microstructures                      | 50, 698-702, 2011       | 1.486         | 3        |
| 133     | Structural, optical and magnetic properties of Cr-doped CdSe nanoparticles  | Authors of Document Singh, J., Lotey, G.S., Verma, N.K.                | Digest Journal of Nanomaterials and Biostructures      | 6, 1733-1740, 2011      | 1.09          | 3        |
| 134     | An efficient novel low voltage field electron emitter with cathode consisting of template synthesized copper microarrays          | Sekhon, G.S., Kumar, S., Kaur, C., (...), Lu, C.-H., Chakarvarti, S.K. | Journal of Materials Science: Materials in Electronics | 22, 1725-1729, 2011     | 1.486         | 2        |
| 135     | Solvothermally synthesized europium-doped CdS nanorods: Applications as phosphors   | Kumar, S., Jindal, Z., Kumari, N., Verma, N.K.                         | Journal of Nanoparticle Research                       | 13, 5465-5471, 2011     | 2.175         | 8        |
| 136     | Fabrication and characterization of Cu-CdSe-Cu nanowire heterojunctions   | Lotey, G.S., Verma, N.K.   | Journal of Nanoparticle Research                       | 13, 5397-5405, 2011     | 2.175         | 10       |
| 137     | Room temperature ferromagnetism in solvothermally synthesized pure CdSe and CdSe:Ni nanorods                                      | Kumar, S., Kumar, S., Verma, N.K., Chakravarti, S.K.                   | Journal of Materials Science: Materials in Electronics | 22, 1456-1459, 2011     | 1.486         | 3        |
| 138     | Room temperature magnetism in Ni-doped CdSe nanoparticles   | Kumar, S., Kumar, S., Verma, N.K., Chakarvarti, S.K.                   | Journal of Materials Science: Materials in Electronics | 22, 901-904, 2011       | 1.486         | 2        |

| Sr. No. | Title   | Author(s)  | Journal  | Volume, Pages, Year | Impact Factor | Citation |
|---------|---|--|--|---------------------|---------------|----------|
| 139     | Solution-combustion: The versatile route to synthesize silver nanoparticles   | Sharma, P., Lotey, G.S., Singh, S., Verma, N.K.                    | Journal of Nanoparticle Research                             | 13, 2553-2561, 2011 | 2.175         | 6        |
| 140     | Room temperature ferromagnetic behavior of Eu doped Cd <sub>1-x</sub> Zn <sub>x</sub> S nanoparticles   | Kumar, S., Kumar, S., Verma, N.K., Chakarvarti, S.K.               | Journal of Materials Science: Materials in Electronics       | 22, 523-526, 2011   | 2.175         | 3        |
| 141     | Reflective properties of ZnS nanoparticle coatings  | Kumar, S., Verma, N.K., Singla, M.L.                               | Journal of Coatings Technology Research                      | 8, 223-228, 2011    | 1.094         | 4        |
| 142     | Structural and optical properties of CdS nanorods and CdS/ZnS nanoslabs   | Jindal, Z., Verma, N.K.  | Physica E: Low-Dimensional Systems and Nanostructures        | 43, 1021-1025, 2011 | 1.522         | 9        |
| 143     | Enhanced luminescence of UV irradiated Zn <sub>(1-x)</sub> Ni <sub>x</sub> S nanoparticles  | Jindal, Z., Verma, N.K.  | Materials Chemistry and Physics                              | 124, 270-273, 2010  | 2.072         | 2        |
| 144     | Electrochemical template-assisted fabrication of CdS micro/nanostructures   | Jindal, Z., Verma, N.K.  | Physica E: Low-Dimensional Systems and Nanostructures        | 41, 1752-1756, 2009 | 1.522         | 4        |
| 145     | Photoluminescence properties of Eu <sup>3+</sup> -doped Cd <sub>1-x</sub> Zn <sub>x</sub> S quantum dots  | Singh, K., Kumar, S., Verma, N.K., Bhatti, H.S.                    | Journal of Nanoparticle Research                             | 11, 1017-1021, 2009 | 2.175         | 11       |
| 146     | Photoluminescence studies of Cd <sub>1-x</sub> Zn <sub>x</sub> S nanocrystals   | Singh, K., Verma, N.K., Bhatti, H.S.                               | Physica B: Condensed Matter                                  | 404, 300-304, 2009  | 1.327         | 5        |
| 147     | Preparation, characterization and ionic conductivity studies of ZrO <sub>2</sub> dispersed mixed halide matrix (KCl) <sub>0.9</sub> (NaCl) <sub>0.1</sub> | Gupta, A., Sil, A., Verma, N.K.                                    | Journal of Physics and Chemistry of Solids                   | 70, 340-343, 2009   | 1.527         | 1        |
| 148     | Photoluminescence characteristics of synthesized copper doped Cd <sub>1-x</sub> Zn <sub>x</sub> S quantum dots  | Singh, K., Kumar, S., Verma, N.K., Bhatti, H.S.                    | Journal of Materials Science: Materials in Electronics       | 20, 1178-1181, 2009 | 1.486         | 3        |
| 149     | Effect of annealing on the laser induced photoluminescence behavior of template-synthesized silver iodide nanowires                                       | Kumar, S., Kumar, S., Verma, N.K., Sharma, J.K., Chakarvarti, S.K. | Optoelectronics and Advanced Materials, Rapid Communications | 3, 33-35, 2009      | 0.402         | 0        |

| Sr. No. | Title  | Author(s)  | Journal   | Volume, Pages, Year      | Impact Factor | Citation |
|---------|--|--|---|--------------------------|---------------|----------|
| 150     | Laser induced photoluminescence and morphological characterization of Cd (1-x)-yZnxMnyS nanocrystals                                   | Bhatti, H.S., Singh, K., Verma, N.K.   | Journal of Materials Science: Materials in Electronics                                  | 20, S255-S259, 2009      | 1.486         | 3        |
| 151     | Neutron irradiation effects on optical and structural properties of silicate glasses   | Amanpreet Kaur Sandhu, Surinder Singh, and O.P. Pandey                           | Materials Chemistry and Physics   | 115, 783-788, 2009       | 2.072         | 14       |
| 152     | Preparation of Strontium Hexaferrite Magnets from Celestite and Iron Ore fines by Mechano-chemical Route                               | R.K. Tiwary, S.P. Narayan and O.P. Pandey  | Mineral Processing and Extractive Metallurgy  | 118(4), 201-204, 2009    | 0.647         | 0        |
| 153     | Effect of neutron- irradiation on optical properties of SiO <sub>2</sub> -Na <sub>2</sub> O-MgO-Al <sub>2</sub> O <sub>3</sub> glasses | A.K. Sandhu, Surinder Singh, and O.P. Pandey                                     | Indian Journal of Physics   | 87(7), 985-991, 2009     | 1.785         | 3        |
| 154     | Synthesis of Mn-Zn ferrite nano particles from pure chemicals and minerals   | Ravi Prakash Srivastava and O.P. Pandey  | Transaction of the Indian Ceramic Society   | 68(4), 183-191, 2009     | 0.132         | 0        |
| 155     | Electrical and Magnetic properties of rare earth substituted strontium hexaferrite   | Anterpreet Singh, S. Bindra Narang, Kulwant Singh, O.P. Pandey and R. K. Kotnala | Ceramic Processing Research   | 11 (2), 241-249, 2010    | 0.33          | 5        |
| 156     | Study of energy transfer from capping agents to intrinsic vacancies/ defects in passivated ZnS nanoparticles                           | Manoj Sharma, Sunil Kumar, O.P. Pandey   | J. Nanopart Res.  | 10, 2655-2666, 2010      | 2.175         | 16       |
| 157     | Excitation induced tunable emission in chitosan capped manganese doped biocompatible ZnS nanophosphors                                 | Manoj Sharma, Sukhvir Singh, O.P. Pandey   | Journal of Applied Physics  | 107, 104319-104328, 2010 | 2.210         | 4        |
| 158     | Wear and micro-structural characteristics of spray atomized zircon sand reinforced LM13 alloy  | Kamalpreet Kaur and O.P. Pandey  | Materialwissenschaft und Werkstofftechnik (MATWER), (Materials Science and Engineering) | 41(7), 568-574, 2010     | 0.505         | 2        |
| 159     | Dry sliding wear behavior of zircon sand reinforced Al-Si alloy  | Kamalpreet Kaur and O.P. Pandey  | Tribology Letters   | 38, 377-387, 2010        | 1.743         | 11       |
| 160     | Structural and age hardening characteristics of near eutectic Al-Si alloys   | Kamalpreet Kaur and O.P. Pandey  | International Journal of Materials Research, (formerly Z. Metallkd.)                    | 101(9), 1158-1165, 2010  | 0.691         | 4        |



| Sr. No. | Title   | Author(s)  | Journal                           | Volume, Pages, Year    | Impact Factor | Citation |
|---------|---|--|-----------------------------------|------------------------|---------------|----------|
| 161     | Microstructural characteristics of spray formed zircon sand reinforced LM13 composite   | Kamalpreet Kaur and O.P. Pandey                              | Journal of Alloys and Compounds   | 503, 410-415, 2010     | 2.390         | 6        |
| 162     | Relationship between Anderson -Gruneisen parameter and thermal expansivity  | S.K. Srivastava, Sanjay Kumar and O.P. Pandey                | High Temperature s-High Pressures | 40, 161-167, 2011      | 0.6           | 0        |
| 163     | Tribological behaviour of SiC particle reinforced Al-Si alloy   | Kamalpreet Kaur, Ramkishor Anant and O.P. Pandey             | Tribology Letters                 | 44, 41-58, 2011        | 1.743         | 2        |
| 164     | Re -formulation of Malthus-Verhulst equation for black gram (Cicer arietinum L.) seeds pre-treated with magnetic field          | T.S. Mahajan and O.P. Pandey                                 | Inter. Agrophy.                   | 25, 355-359, 2011      | 1.025         | 1        |
| 165     | Photocatalytic degradation of organic dyes under UV-Visible light using capped ZnS nanoparticles                                | Manoj Sharma, Tarun Jain, Sukhvir Singh, O.P. Pandey         | Solar Energy                      | 86, 626-633, 2012      | 2.952         | 13       |
| 166     | Wear Behavior of Dual Particle Size (DPS) Zircon Sand Reinforced Aluminum Alloy   | Suresh Kumar, Vipin Sharma, Ranvir Singh Panwar, O.P. Pandey | Tribol Lett                       | 47, 231-251, 2012      | 1.743         | 6        |
| 167     | Microstructural and wear behavior of dual reinforced particle (DRP) aluminum alloy composite                                    | Vipin Sharma, Suresh Kumar, Ranvir Singh Panwar, O.P. Pandey | J Mater Sci.                      | 47, 6633-6646, 2012    | 2.163         | 7        |
| 168     | Tunable emission in surface passivated Mn-ZnS nanophosphors and its application for glucose sensing                             | Manoj Sharma, Tarun Jain, Sukhvir Singh, O.P. Pandey         | AIP Advances                      | 2 012183, 2012         | 1.349         | 2        |
| 169     | Analysis and delineation of spatial variability using geo-sensed apparent electrical conductivity and clustering techniques     | B.S. Bansod, O.P. Pandey and N.L. Rajesh                     | Int. J. Agric. Biol               | 14, 481-491, 2012      | 0.808         | 1        |
| 170     | FTIR structural investigation of gamma irradiated BaO-Na <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glasses | Ravneet Kaur, Surinder Singh and O.P. Pandey                 | Physica B: Condensed Matter       | 407, 4765-4769, 2012   | 1.327         | 8        |
| 171     | Study of wear behavior of zircon sand-reinforced LM13 alloy composites at elevated temperatures                                 | Ranvir Singh Panwar and O.P. Pandey                          | J. Mat. Eng. and Performance      | 22(6), 1765-1775, 2012 | 0.915         | 0        |
| 172     | Analysis of wear track and debris of stir cast LM13/Zr composite at elevated temperatures                                       | Ranvir Singh Panwar, O.P. Pandey                             | Materials Charaterization         | 75, 200-213, 2013      | 1.88          | 2        |

| Sr. No. | Title   | Author(s)                                      | Journal   | Volume, Pages, Year               | Impact Factor | Citation |
|---------|---|--|---|-----------------------------------|---------------|----------|
| 173     | Wear behavior at high temperature of dual-particle size zircon-sand-reinforced aluminum alloy composite   | Suresh Kumar, Ranvir Singh Panwar, O.P. Pandey | Metallurgical and Materials Transactions A            | 44, 1548-1565, 2013               | 1.627         | 1        |
| 174     | Microstructural Analysis of Glass-steel Interface   | Bhupinder Kaur, K. Singh and O.P. Pandey       | Surface and Coatings Tech.                            | 217 (25), 156-161, 2013           | 1.941         | 1        |
| 175     | An application of PCA and fuzzy C- means to delineate management zones and variability analysis of soil   | B.S. Bansod and O.P. Pandey                    | Eurasian Soil Science                                 | 46 (5), 556-564, 2013             | 0.216         | 0        |
| 176     | Direct synthesis of nano-crystalline tungsten carbide from scheelite ore by solid state reaction method   | Harjinder Singh and O.P. Pandey                | Ceram. Int.   | 39, 785-790, 2013                 | 1.789         | 6        |
| 177     | Single step synthesis of tungsten carbide (WC) nanoparticles from scheelite ore   | Harjinder Singh and O.P. Pandey                | Ceram. Int.   | 39(6), 6703-6706, 2013            | 1.789         | 2        |
| 178     | Photocatalytic studies of crystal violet dye using Mn doped and PVP capped ZnO nanoparticles  | Manish Mittal, Manoj Sharma, and O.P. Pandey   | J. Nanoscience and Nanotec.                           | 14, 2725-2733, 2014               | 1.149         | 0        |
| 179     | A comparison of modifications induced by Li <sup>3+</sup> and Ag <sup>14+</sup> ion beam in spectroscopic properties of bismuth alumino borosilicate glass thin films | Ravneet Kaur, Surinder Singh, O.P. Pandey      | Journal of Spectroscopy                               | 2013 Article ID 391428 pages (11) | 0.53          | 0        |
| 180     | Modifications induced in the structural and optical properties of bismuth sodium borosilicate glass thin films by 120 MeV Ag <sup>7+</sup> ions                       | Ravneet Kaur, Surinder Singh, O.P. Pandey      | Nuclear Instruments and Methods in Physics Research B | 305, 51-54, 2013                  | 1.266         | 0        |
| 181     | Gamma ray irradiation effects on the optical properties of BaO- Na <sub>2</sub> O- B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glasses                            | Ravneet Kaur, Surinder Singh, O.P. Pandey      | Journal of Molecular Structure                        | 1048, 78-82, 2013                 | 1.404         | 2        |
| 182     | Absorption spectroscopic studies on gamma irradiated bismuth borosilicate glasses   | Ravneet Kaur, Surinder Singh, O.P. Pandey      | Journal of Molecular Structure                        | 1049, 386-391, 2013               | 1.404         | 0        |
| 183     | Influence of CdO and gamma irradiation on the infrared absorption spectra of borosilicate glass   | Ravneet Kaur, Surinder Singh, O.P. Pandey      | Journal of Molecular Structure                        | 1049, 409-413, 2013               | 1.404         | 0        |
| 184     | Effect of dual reinforced ceramic particles on high temperature tribological properties of aluminum composites  | Suresh kumar, Ranvir Singh Panwar, O.P. Pandey | Ceramics International                                | 39(6), 6333-6342, 2013            | 1.789         | 2        |

| Sr. No. | Title  | Author(s)   | Journal  | Volume, Pages, Year     | Impact Factor | Citation |
|---------|--|---|--|-------------------------|---------------|----------|
| 185     | Effect of pH on photocatalytic activity of capped ZnS nanoparticles  | Jagdeep Kaur, Manoj Sharma and O.P. Pandey                          | J. Nano Sci. and NaonTech.                       | 13, 1-11, 2013          | 1.149         | 0        |
| 186     | Effect of Particle Size on Wear of Particulate Reinforced Aluminum Alloy Composites at Elevated Temperatures   | Suresh Kumar, Ratandee Pandey, Ranvir Singh Panwar, and O.P. Pandey | Journal of Materials Engineering and Performance | 22(11), 3550-3560, 2013 | 0.915         | 0        |
| 187     | High Temperature sliding wear of Spray-formed solid lubricated Aluminium Matrix Composites   | Kamalpreet Kaur and O.P. Pandey                                     | Journal of Materials Engineering and Performance | 22(10), 3101-3110       | 0.915         | 0        |
| 188     | Reduction of WO <sub>3</sub> to WC nano particles by reflux reaction   | Raj Kumar, Akshay Kumar, Sukhbir Singh and O.P. Pandey              | Materials Science                                | 49(1), 102-109, 2013    | 0.214         | 0        |
| 189     | A Novel Approach for Direct Synthesis of Nanocrystalline Tungsten Carbide from Milled Scheelite Ore  | Harjinder Singh, O.P. Pandey  | Metallurgica I and Materials Transactions B      | 44 (6), 1428-1434, 2013 | 1.212         | 0        |
| 190     | Photocatalytic Studies of Crystal Violet Dye Using Mn Doped and PVP Capped ZnO Nanoparticles   | Manish Mittal, Manoj Sharma and O. P. Pandey                        | Journal of Nanoscience and Nanotechnology        | 14, 2725-2733, 2014     | 1.149         | 0        |
| 191     | UV-Visible light induced photocatalytic studies of Cu doped ZnO nanoparticles prepared by co-precipitation method  | Manish Mittal, Manoj Sharma, O. P. Pandey                           | Solar Energy                                     | 110 (2014) 386-397      | 3.541         | 03       |
| 192     | Study of Non-lubricated Wear of the Al-Si Alloy Composite Reinforced with Different Ratios of Coarse and Fine Size Zircon Sand Particles at Different Ambient Temperatures | Ranvir Singh Panwar, Suresh Kumar, Ratandee p Pandey, O.P. Pandey   | Tribology Letters                                | 55 (2014) 83-92         | 2.151         | 0.0      |
| 193     | Influence of particle size and temperature on the wear properties of rutile-reinforced aluminium metal matrix composite  | Rama Arora, Suresh Kumar, Gurmel Singh, O.P. Pandey                 | J. Composite Materials                           | (2014) 0021998314526079 | 1.257         | 01       |
| 194     | Effect of Foaming Temperature on Polyhedron Structure of Particulate Reinforced Aluminum Composite Foams   | Suresh Kumar, Ratandee Pandey, O.P. Pandey                          | Procedia Materials Science                       | 5 (2014) 891-897        | 0.0           | 0.0      |
| 195     | Evaluation of Sliding Wear Behavior of Garnet Particle-containing LM13 Alloy Composites  | Anju Sharma, Suresh Kumar, Gurmel Singh, O.P. Pandey                | Procedia Materials Science                       | 5 (2014) 953-961        | 0.0           | 0.0      |

| Sr. No. | Title   | Author(s)   | Journal   | Volume, Pages, Year   | Impact Factor | Citation |
|---------|---|---|---|---|---------------|----------|
| 196     | Synthesis, characterization, photocatalytic and reusability studies of capped ZnS nanoparticles   | Jagdeep Kaur, Manoj Sharma, O. P. Pandey                          | Bulletin of Materials Science                                 | 37 (2014) 931-940   | 0.870         | 0.0      |
| 197     | Structural and optical studies of undoped and copper doped zinc sulphide nanoparticles for photocatalytic application   | Jagdeep Kaur, Manoj Sharma, O.P. Pandey                           | Superlattices and Microstructures                             | 77 (2014) 35-53   | 1.979         | 0.0      |
| 198     | Reduction of wolframite ore with activated charcoal to produce nano Tungsten carbide  | Harjinder Singh, Balpreet Kaur, O.P. Pandey                       | An Inter. J. Jaipur National Uni.                             | 3 (2014) 276-279  | 0.0           | 0.0      |
| 199     | In-situ synthesis of chromium carbide (Cr <sub>3</sub> C <sub>2</sub> ) nanopowders by chemical-reduction route   | Mani Mahajan, Shalini Rajpoot, O. P. Pandey                       | International Journal of Refractory Metals and Hard Materials | 50 (2015) 113-119   | 1.764         | 0.0      |
| 200     | Effect of co-doping metal ions (Li <sup>+</sup> , Na <sup>+</sup> and K <sup>+</sup> ) on the structural and photoluminescent properties of nano-sized Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> synthesized by co-precipitation method | Deepak Kumar, Manoj Sharma, O.P. Pandey                           | Optical Materials   | <a href="http://dx.doi.org/10.1016/j.optmat.2014.02.014">http://dx.doi.org/10.1016/j.optmat.2014.02.014</a> | 1.918         | 0        |
| 201     | Influence of particle size and temperature on the wear properties of rutile-reinforced aluminium metal matrix composite   | Rama Arora, Suresh Kumar, Gurmel Singh and O.P. Pandey            | Journal of Composite Materials                                | doi:10.1177/0021998314526079  | 0.936         | 0        |
| 202     | UV-Visible light induced photocatalytic studies of Cu doped ZnO nanoparticles prepared by co-precipitation method   | Manish Mittal, Manoj Sharma, O. P. Pandey                         | Solar Energy  | 110 (2014) 386-397  | 3.541         | 03       |
| 203     | Study of Non-lubricated Wear of the Al-Si Alloy Composite Reinforced with Different Ratios of Coarse and Fine Size Zircon Sand Particles at Different Ambient Temperatures  | Ranvir Singh Panwar, Suresh Kumar, Ratandee p Pandey, O.P. Pandey | Tribology Letters   | 55 (2014) 83-92   | 2.151         | 0.0      |
| 204     | Influence of particle size and temperature on the wear properties of rutile-reinforced aluminium metal matrix composite   | Rama Arora, Suresh Kumar, Gurmel Singh, O.P. Pandey               | J. Composite Materials  | (2014) 0021998314526079   | 1.257         | 01       |
| 205     | Effect of Foaming Temperature on Polyhedron Structure of Particulate Reinforced Aluminum Composite Foams  | Suresh Kumar, Ratandee Pandey, O.P. Pandey                        | Procedia Materials Science                                    | 5 (2014) 891-897  | 0.0           | 0.0      |

| Sr. No. | Title   | Author(s)   | Journal   | Volume, Pages, Year   | Impact Factor | Citation |
|---------|---|---|---|-----------------------|---------------|----------|
| 206     | Evaluation of Sliding Wear Behavior of Garnet Particle-containing LM13 Alloy Composites   | Anju Sharma, Suresh Kumar, Gurnel Singh, O.P. Pandey          | Procedia Materials Science                                    | 5 (2014) 953-961      | 0.0           | 0.0      |
| 207     | Synthesis, characterization, photocatalytic and reusability studies of capped ZnS nanoparticles   | Jagdeep Kaur, Manoj Sharma, O. P. Pandey                      | Bulletin of Materials Science                                 | 37 (2014) 931-940     | 0.870         | 0.0      |
| 208     | Structural and optical studies of undoped and copper doped zinc sulphide nanoparticles for photocatalytic application   | Jagdeep Kaur, Manoj Sharma, O.P. Pandey                       | Superlattices and Microstructures                             | 77 (2014) 35-53       | 1.979         | 0.0      |
| 209     | Reduction of wolframite ore with activated charcoal to produce nano Tungsten carbide  | Harjinder Singh, Balpreet Kaur, O.P. Pandey                   | An Inter. J. Jaipur National Uni.                             | 3 (2014) 276-279      | 0.0           | 0.0      |
| 210     | In-situ synthesis of chromium carbide (Cr <sub>3</sub> C <sub>2</sub> ) nanopowders by chemical-reduction route   | Mani Mahajan, Shalini Rajpoot, O. P. Pandey                   | International Journal of Refractory Metals and Hard Materials | 50 (2015) 113-119     | 1.764         | 0.0      |
| 211     | Thermal, Structural and crystallization kinetics of SiO <sub>2</sub> -BaO-B <sub>2</sub> O <sub>3</sub> - Al <sub>2</sub> O <sub>3</sub> glass samples as a sealant for SOFC                | Anu Arora, K. Singh and O.P. Pandey,                          | Int. J. Hydro Energy  | 36 (2011) 14948-14955 | 2.93          | 12       |
| 212     | Ionic conductivity, structural and thermal properties of pure and Sr <sup>2+</sup> doped Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> pyrochlores for SOFC,                                | Jasmeet Kaur Gill, O.P. Pandey and K. Singh                   | Solid State Sciences  | 13 (2011) 1960-1966.  | 1.67          | 10       |
| 213     | Influence of processing conditions on the formation of Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> and YTiO <sub>3</sub> Phases   | Jasmeet Kaur Gill, O.P. Pandey, K. Singh                      | Trans. Ind. Ceram. Soc.                                       | 70 (2011) 109-114     | 0.13          |          |
| 214     | Synthesis and electroluminescence characterization of cadmium complex,  | Rahul Kumar, K. Singh, R. Srivastva and M.N. Kamalasanan      | J. Nano-and Electronic Physics                                | 3 (2011) 514-520.     | 0.00          |          |
| 215     | Chemical interaction and thermal studies of calcium borosilicate glass sealants, ,  | Vishal Kumar, Gurbinder Kaur, O.P. Pandey and K. Singh,       | Physics and Chemistry of Glasses                              | 52 (2011) 212-220     | 0.76          | 4        |
| 216     | Effect of Mercaptopropionic acid as a linker on structural, thermal and optical properties of TiO <sub>2</sub> -CdSe nanocomposites.  | S.K. Arya, Tanvi Vats, S.N. Sharma, K. Singh and A.K. Narula, | J. Therm Anal. Calorim  | 107(2011) 550-560     | 2.20          |          |
| 217     | Structural, thermal and crystallization kinetics of ZnO-BaO-SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Mn <sub>2</sub> O <sub>3</sub> based glass sealants for Solid Oxide Fuel Cells | Anu arora, Vishal Kumar, O.P. Pandey and K. Singh             | Ceramic International   | 37 (2011) 2101-2107.  | 2.08          | 3        |

| Sr. No. | Title  | Author(s)   | Journal                                      | Volume, Pages, Year      | Impact Factor | Citation |
|---------|--|---|--|--------------------------|---------------|----------|
| 218     | Influence of Y <sub>2</sub> O <sub>3</sub> on structural and optical properties of SiO <sub>2</sub> -BaO-ZnO-xB <sub>2</sub> O <sub>3</sub> -(10-x) Y <sub>2</sub> O <sub>3</sub> glasses and glass ceramics,. | Gurbinder Kaur, Manoj Kumar, Anu Arora, O.P. Pandey, K. Singh | J. Non-Crystalline Solids,                   | 357 (2011) 858-863       | 1.71          | 27       |
| 219     | Direct conversion of wolframite ore to tungsten carbide nano particles,  | Akshay Kumar, K. Singh, O.P. Pandey,                          | Int. J. Refractory Metals and Hard Materials | 29 (2011) 555-558.       | 1.76          | 3        |
| 220     | Akshay Kumar, K. Singh, O.P. Pandey, Sintering behavior of nanostructured WC-Co composite  |   | Ceramic International                        | 37 (2011) 1415-1422      | 2.08          | 12       |
| 221     | Role of sintering temperature on thermal, electrical and structural properties of Y <sub>2</sub> Ti <sub>2</sub> O pyrochlores for SOFC applications   | Jasmeet Kaur Gill, O.P. Pandey, K. Singh,                     | Int. J. Hydrogen Energy                      | 36 (2011) 14943-14947.   | 2.93          | 3        |
| 222     | Thermal and crystallization Kinetics of Yttrium, Lanthinium Calcium silicates glass sealants for SOFC,   | Vishal Kumar, Rupali, O.P. Pandey, K. Singh,                  | Int. J. Hydrogen Energy,                     | 36 (2011) 14971-14976.   | 2.93          | 7        |
| 223     | Study on the formation of crystalline phases in lanthanum borosilicate glass,.   | Vishal Kumar, O.P. Pandey and K. Singh                        | Trans. Ind. Ceram. Soc.                      | 70 (2011) 17             | 0.13          |          |
| 224     | Dielectric behaviour of emeraldine base polymer-ZnO nanocomposite film in the low to medium frequency  | ML Singla, R Sehrawat, N Rana, K Singh                        | Journal of Nanoparticle Research             | 13 (5), (2011) 2109-2116 | 2.278         | 12       |
| 225     | Ac conductivity and dielectric relaxation studies of La <sub>0.95</sub> Sr <sub>0.05</sub> GaO <sub>2.975</sub> gallate  | Kapil Sood, K. Singh and O.P. Pandey                          | Advanced Materials Research                  | 585 (2012) 205-207       | 0.00          |          |
| 226     | Synthesis and analysis of high surface area vanadium carbide nanoparticles   | Mani Mahajan, K. Singh and O.P. Pandey                        | Advanced Materials Research                  | 585(2012) 95-98          | 0.00          | 1        |
| 227     | Assessment of <i>in vitro</i> bioactivity of SiO <sub>2</sub> -BaO-ZnO-B <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> glasses: An optico-analytical approach,                                   | Gurbinder Kaur, Poonam Sharma, Vishal Sharma, K. Singh        | Materials Science and Engineering: C,        | 32 (2012) 1941-1947.     | 2.73          | 5        |
| 228     | Glass sealants and their chemical interaction with interconnect materials  | K. Singh  | Trans Ind. Ceram. Soc.                       | 71 (2012) 203-206.       | 0.13          |          |
| 229     | Effect of mercaptopropionic acid as linker on structural, thermal, and optical properties of TiO <sub>2</sub> -CdSe nanocomposites   | S.K. Arya, T. Vats, S.N. Sharma, K. Singh, A.K. Narula        | Journal of thermal analysis and calorimetry  | 107 (2), 555-560         | 2.20          | 1        |

| Sr. No. | Title  | Author(s)  | Journal                             | Volume, Pages, Year    | Impact Factor | Citation |
|---------|--|--|-------------------------------------|------------------------|---------------|----------|
| 230     | Chemical compatibility between MgO-SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> glass sealant and low, high temperature electrolytes for solid oxide fuel cell applications | Gurbinder Kaur, O.P. Pandey and K. Singh                     | Int. J. Hydrogen Energy             | 37 (2012) 17235-17244. | 2.93          | 4        |
| 231     | Glass stability and effect of heat-treatment duration on chemical interaction between calcium lanthanum borosilicate glass sealant and electrolytes,   | Gurbinder Kaur, O.P. Pandey and K. Singh                     | 159 (2012) F717-F724.               | J. Electro Chem. Soc., | 2.59          | 5        |
| 232     | Microstructural analysis of interfaces between lanthanum contained glass and two different electrolytes for SOFC applications,   | Gurbinder Kaur, O.P. Pandey, K. Singh                        | Fuel Cells                          | 12 (2012) 739-748.     | 1.54          | 7        |
| 233     | Effect of modifiers field strength on optical, structural and mechanical properties of lanthanum borosilicate glasses  | Gurbinder Kaur, O.P. Pandey and K. Singh,                    | J. Non-Cryst. Solids                | 358 (2012) 2589-2596.  | 1.71          | 15       |
| 234     | Optical, structural and mechanical properties of different valence cations doped bismuth vanadate oxides   | Gurbinder Kaur, O.P. Pandey and K. Singh                     | Physica Status Solidi A,            | 209 (2012) 1231-1238.  | 1.47          | 7        |
| 235     | Interfacial study between high temperature SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -AO-La <sub>2</sub> O <sub>3</sub> (A= Sr, Ba) glass seals and Crofer 22 APU for solid oxide fuel cell application  | Gurbinder Kaur, O.P. Pandey and K. Singh                     | Int. J. Hydrogen Energy             | 37 (2012) 6862-6874.   | 2.93          | 21       |
| 236     | Studies on Sr substituted lanthanum indate as mixed ionic conductor  | Kapil Sood, K. Singh, O.P. Pandey,                           | J. Mater. Sci.,                     | 47 (2012) 4520-4529.   | 2.30          | 3        |
| 237     | Al <sub>2</sub> O <sub>3</sub> addition effect on optical and invitro bioactive properties of sodium silicate glasses  | Vishal Kumar, Sachin Tyagi and K. Singh,                     | Indian J. Pure and applied Physics, | 50 (2012) 335-338.     | 0.85          |          |
| 238     | Structural, thermal and electrical properties of (100-x)ZrO <sub>2</sub> (x)Bi <sub>2</sub> O <sub>3</sub> compound,   | Paramjyot Kumar Jha, Gourav Singla, K. Singh and O.P. Pandey | Ionics                              | 18 (2012)759-767.      | 1.83          | 1        |
| 239     | Thermodynamic stability of yttrium alkaline earth borosilicate glasses and their compatibility with Crofer for SOFC,   | Gurbinder Kaur, V. Kumar, O.P. Pandey, K. Singh              | J. The Electrochemical Society      | 159 (3), B277-B284.    | 2.59          | 11       |

| Sr. No. | Title  | Author(s)  | Journal  | Volume, Pages, Year  | Impact Factor | Citation |
|---------|--|--|--|----------------------|---------------|----------|
| 240     | Preparation of Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> pyrochlore using high energy ball milling and their structural, thermal and conducting properties | Meenu, Jasmeet Kaur Gill, Suresh Kumar and K. Singh,                 | Ionics   | 18 (2012) 479-48     | 1.83          | 4        |
| 241     | Chemical interaction study between lanthanum based different alkaline earth glass sealants with Crofer 22 APU for solid oxide fuel cell applications           | Gurbinder Kaur, O.P. Pandey and K. Singh,                            | Int. J. Hydro. Energy                                  | 37 (2012) 3883-3889  | 2.93          | 12       |
| 242     | Structural, thermal and electrical properties of Ti <sup>4+</sup> substituted Bi <sub>2</sub> O <sub>3</sub> solid systems                                     | Gourav Singla, Paramjyot Kumar Jha, Jasmeet Kaur Gill, and K. Singh, | Ceramic International                                  | 38 (2012) 2065-2070  | 2.08          | 7        |
| 243     | Microstructural study of Crofer 22 APU-glass interface for SOFC application  | Bhupinder Kaur Gill, K. Singh and O.P. Pandey                        | Int. J. Hydro. Energy,                                 | 37 (2012) 3839-3847  | 2.93          | 5        |
| 244     | Ionic conductivity, Structural and Thermal properties of Ca <sup>2+</sup> doped Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> pyrochlores for SOFC             | Jasmeet Kaur, O.P. Pandey and K. Singh                               | Int. J. Hydrogen Energy                                | 37 (2012) 3857-3864. | 2.93          | 4        |
| 245     | Structural and optical properties of barium doped bismuth vanadate melt quenched sample  | Sakshi Gupta, K. Singh,  | Physica B: Condensed Matter                            | 431 (2013) 89-93.    | 1.27          | 1        |
| 246     | Single step synthesis of nano vanadium carbide V <sub>8</sub> C <sub>7</sub> phase   | Mani Mahajan, K. Singh, O.P. Pandey                                  | International J. Refractory Metals and Hard Materials, | 36 (2013) 106-110.   | 1.76          | 4        |
| 247     | Structural, Thermal and Electrical Study of Ca <sup>2+</sup> , Sr <sup>2+</sup> Substituted BiFeO <sub>3</sub> for IT-SOFC                                     | S. Thakur, O.P. Pandey, K. Singh,                                    | ECS Transactions                                       | 57 (2013) 2125-2132. | 0.00          |          |
| 248     | Structural and thermal properties of Na <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> glass and glass ceramics  | Paramjyot Kumar Jha, O.P. Pandey, K. Singh                           | J. Non-Crystalline Solids                              | 379 (2013) 89-94     | 1.71          | 1        |
| 249     | Simulation of thermal stress within diffusion couple of composite seals with Crofer 22APU for solid oxide fuel cells applications                              | G. Kaur, D. Homa, K. Singh, O.P. Pandey, B. Scott and G. Pickrell,   | J. Power Sources                                       | 242 (2013) 305-313   | 5.21          |          |
| 250     | Corrosion study of SiO <sub>2</sub> -CaO-Al <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O-TiO <sub>2</sub> glass coating on the low carbon steel              | Bhupinder Kaur, K. Singh, O.P. Pandey,                               | Surface Eng.   | 29 (2013) 479-483.   | 1.51          | 2        |



| Sr. No. | Title  | Author(s)  | Journal                          | Volume, Pages, Year     | Impact Factor | Citation |
|---------|--|--|----------------------------------|-------------------------|---------------|----------|
| 251     | Structural and thermal properties of glass composite seals and their chemical compatibility with Crofer 22APU for solid oxide fuel cells applications, | G. Kaur, D. Homa, K. Singh, O.P. Pandey, B. Scott and G. Pickrell, | J. Power Sources                 | 240 (2013) 458-470.     | 5.21          | 4        |
| 252     | Study of structural and electrical behavior for Ca doped LaInO <sub>3</sub> electrolytes,  | Kapil Sood, K. Singh, O.P. Pandey,                                 | Trans. Ind. Ceram. Soc.          | 72 (2013) 32-35.        | 0.13          |          |
| 253     | Na <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> based super-ionic glasses for solid electrolytes,  | Paramjyot Jha, O.P. Pandey K. Singh,                               | Trans. Ind. Ceram. Soc.          | 72 (2013) 5-9.          | 0.13          |          |
| 254     | Electric relaxation behavior of Bi <sub>0.5</sub> Sr <sub>0.5</sub> FeO <sub>3</sub> ceramic: An electric modulus approach,                            | Samita Thakur, O.P. Pandey, K. Singh,                              | AIP Conf. Proc.                  | 1536 (2013) 577-578.    | 0.00          |          |
| 255     | Dielectric spectroscopy studies of NASICON materials   | Paramjyot Kumar Jha, O.P. Pandey, K. Singh,                        | AIP Conf. Proc.                  | 1536 (2013) 795-796.    | 0.00          |          |
| 256     | Williamson-Hall studies on synthesized nanocrystalline tungsten carbide (WC),  | Gourav Singla, K. Singh and O.P. Pandey                            | Applied Physics A                | 113 (2013) 237-242.     | 1.69          | 4        |
| 257     | Effect of swift heavy ions on structural and optical properties of bismuth based alumino-borosilicate glasses  | R. Kaur, S. Singh. K. Singh and O.P. Pandey,                       | Radiation Physics and Chemistry, | 86 (2013) 23-30.        | 1.19          | 7        |
| 258     | Structural and thermal properties of in-situ reduced WO <sub>3</sub> to W powder   | Gourav Singla, K. Singh, O.P. Pandey                               | Powder Technology                | 237 (2013) 9-13         | 2.26          | 5        |
| 259     | Structural and dielectric properties of Bi <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> (0.40 ≤ x ≤ 0.55),  | Samita Thakur, O.P. Pandey, K. Singh                               | Ceramics international           | 39 (2013) 6165-6174.    | 2.08          | 5        |
| 260     | Photocatalytic degradation of azo dyes using Zn-doped and undoped TiO <sub>2</sub> nanoparticles   | Pooja Singla, M. Sharma, O.P. Pandey, K. Singh                     | Applied Physics A,               | 116 (2013) 371-378      | 1.69          | 1        |
| 261     | Dielectric properties of Ti substituted Bi <sub>2-x</sub> Ti <sub>x</sub> O <sub>3+x/2</sub> ceramics  | Gourav Singla, K. Singh,   | Ceramic International            | 39(2) (2013) 1785-1792. | 2.08          | 1        |
| 262     | O.P. Pandey, Microstructural analysis of glass-steel interface,  | Bhupinder Kaur, K. Singh,  | Surface and Coatings Technology  | 217,(2013) 156-161.     | 2.12          |          |
| 263     | Synthesis of vanadium carbide nanoparticles by thermal decomposition of the precursor,   | Mani Mahajan, K. Singh, O.P. Pandey                                | AIP Conf. Proc.                  | 1536 (2013) 271-272.    | 0.00          |          |
| 264     | Synthesis of nanocrystalline tungsten carbide (WC) powder  | Gourav Singla, K. Singh, O.P. Pandey                               | AIP Conf. Proc.                  | 1536 (2013) 31-32.      | 0.00          |          |
| 265     | Synthesis and characterization of zinc doped nano TiO <sub>2</sub> for efficient photocatalytic degradation of Eriochrome Black T                      | Pooja Singla, M. Sharma, O.P. Pandey, K. Singh,                    | AIP Conf. Proc.                  | 1536 (2013) 103-104     | 0.00          |          |

| Sr. No. | Title  | Author(s)  | Journal  | Volume, Pages, Year               | Impact Factor | Citation |
|---------|--|--|--|-----------------------------------|---------------|----------|
| 266     | Effect of Thermal Treatment on Chemical Interaction Between Yttrium Borosilicate Glass Sealants and YSZ for Planar Solid Oxide Fuel Cells            | V. Kumar, G. Kaur, O.P. Pandey, K. Singh, K. Lu, | International Journal of Applied Glass Science | DOI: 10.1111/ijag.12078. (2014)   | 1.71          |          |
| 267     | Interaction Study of Yttria-Based Glasses with High-Temperature Electrolyte for SOFC   | V. Kumar, O.P. Pandey, K. Singh, K. Lu           | Fuel Cells                                     | 14 (4) (2014) 635-644.            | 1.54          |          |
| 268     | Structural and optical properties of Bi <sub>1-x</sub> A <sub>x</sub> FeO <sub>3</sub> (A = Sr, Ca; 0.40 ≤ x ≤ 0.55),                                | Samita Thakur, O.P. Pandey, K. Singh             | J. Molecular Structure                         | 1074 (2014) 186-192.              | 1.59          | 1        |
| 269     | Structural, Conductivity, and Dielectric Relaxation Studies of La <sub>0.9</sub> Ba <sub>0.1</sub> GaO <sub>3-δ</sub> System,                        | Kapil Sood, K. Singh, O.P. Pandey,               | Particulate Science and Technology,            | DOI:10.1080/02726351.2014.938379. | 0.51          |          |
| 270     | Photocatalytic degradation of diethyl phthalate using TiO <sub>2</sub> nanoparticles,  | Pooja Singla, O.P. Pandey, K. Singh,             | AIP Conf. Proc.                                | (2014) 1591 377-378.              | 0.00          |          |
| 271     | Structural and optical properties of Bi <sub>4</sub> Mg <sub>0.05</sub> V <sub>1.95</sub> O <sub>11-δ</sub> synthesized via melt quench technique,   | Sakshi Gupta, K. Singh,                          | AIP Conf. Proc.                                | (2014) 1591 1729-1730.            | 0.00          |          |
| 272     | Structural and optical properties of quenched and heat-treated Bi <sub>4</sub> V <sub>2-x</sub> Mg <sub>x</sub> O <sub>11-δ</sub> (0.0 ≤ x ≤ 0.20),  | Sakshi Gupta, K. Singh                           | Ceramics International                         | 40(9) (2014) 14801-14808          | 2.08          | 1        |
| 273     | Effect of two different sites substitution on structural and optical properties of Bi <sub>4</sub> V <sub>2</sub> O <sub>11-δ</sub> ,                | Rupanjit Kaur, S. Thakur, K. Singh,              | Physica B: Condensed Matter,                   | 440 (2014) 78-82.                 | 1.27          |          |
| 274     | Effect of Ca substitution on structural, magnetic and dielectric properties of BiFeO <sub>3</sub> ,  | S. Thakur, O.P. Pandey, K. Singh                 | Phase Transition,                              | 87(6) (2014) 527-540.             | 1.04          | 1        |
| 275     | Effect of TiO <sub>2</sub> on the photocatalytic properties of bismuth oxide,  | Gourav Singla, K. Singh,                         | Environmental Technology,                      | 35 (2014) 1520-1524.              | 1.19          | 1        |
| 276     | Structural and thermal analysis of in situ synthesized C-WC nanocomposites,  | Gourav Singla, K. Singh and O.P. Pandey,         | Ceramics International                         | 40 (2014) 5157-5164.              | 2.08          | 3        |
| 277     | One Step Synthesis and Growth Mechanism of Carbon Nanotubes,   | Akshay Kumar, K. Singh, O.P. Pandey              | J. Materials Science and Technology            | 30 (2014) 112-116.                | 1.61          | 1        |
| 278     | Effect of in-situ reduction of Fe <sup>3+</sup> on physical, structural and optical properties of calcium sodium silicate glasses and glass ceramics | Satwinder Singh, K. Singh,                       | J. Non-crystalline solids                      | 386 (2014) 100-104.               | 1.71          | 4        |

| Sr. No. | Title  | Author(s)   | Journal   | Volume, Pages, Year                      | Impact Factor | Citation |
|---------|--|---|---|--|---------------|----------|
| 279     | A review of bioactive glasses: Their structure, properties, fabrication and apatite formation,   | G. Kaur, O.P. Pandey, K. Singh, D. Homa, B. Scott, G. Pickrell, | J. Biomedical Materials Research Part A,                | 102 (1) (2014) 254-274.                  | 2.84          | 25       |
| 280     | Structural and optical properties of La and Gd substituted Bi <sup>4+</sup> - xM <sub>x</sub> V <sub>2</sub> O <sub>11-δ</sub> (0.1 ≤ x ≤ 0.3)       | S. Thakur, M. Devi, K. Singh                                    | Ionics  | 20 (1) (2014) 73-81.                     | 1.83          | 2        |
| 281     | Structural and growth kinetics of in-situ reduced V <sub>2</sub> O <sub>5</sub> ,  | Mani Mahajan, K. Singh, O.P. Pandey,                            | International J. Refractory Metals and Hard Materials   | 46 (2014) 90-95.                         | 1.76          |          |
| 282     | Correlation of glass stability (GS) and heating rates using inflection point temperature, Physics and chemistry of glasses                           | G. Kaur, V. Kumar, K. Singh, O.P. Pandey, G. Pickrell,          | European Journal of glass Science and Technology part B | 55 (2014) 57-62.                         | 0.76          | 1        |
| 283     | Self healing behavior of barium-lanthanum-borosilicate glass and its reactivity with different electrolytes for solid oxide fuel cells applications, | G. Kaur, O.P. Pandey and K. Singh,                              | International Journal of Applied Ceramic Technology     | 11(1) (2014) 136-145.                    | 1.21          |          |
| 284     | Study of the Effect on Ionic Conductivity and Structural Morphology of the Sr doped Lanthanum Gallate Solid Electrolyte                              | Kapil Sood, K. Singh, O.P. Pandey,                              | Solid State Ionics: conference proceeding               | DOI: 10.1142/97898144150400050 (2014)    | 0.00          |          |
| 285     | Nanocrystalline glass ceramics: structural, physical and optical properties,   | Satwinder Singh and K. Singh,                                   | J. Molecular Structure                                  | 1081 (2015), 211-216.                    | 1.59          | 1        |
| 286     | A comparative structural, thermal and electrical study of Ca <sup>2+</sup> , Sr <sup>2+</sup> substituted BiMnO <sub>3</sub>                         | S. Thakur, M. Devi, K. Singh,                                   | Solid State Ionics                                      | 268 (2014) 23-30                         | 2.11          | 1        |
| 287     | Co-existence of cubic and orthorhombic phases in Ba-doped LaInO <sub>3</sub> and their effect on conductivity  | Kapil Sood, K. Singh, O.P. Pandey,                              | Physica B   | DOI: 10.1016/j.physb.2014.08.036. (2014) | 1.27          |          |
| 288     | Effect of intermediate oxide (Y <sub>2</sub> O <sub>3</sub> ) on thermal, structural and optical properties of lithium borosilicate glasses          | Satwinder Singh and K. Singh,                                   | J. Molecular Structure                                  | 1086 ( 2015) 239-245                     | 1.59          |          |
| 289     | Co-existence of cubic and orthorhombic phases in Ba-doped LaInO <sub>3</sub> and their effect on conductivity  | Kapil Sood, K. Singh, O.P. Pandey,                              | Physica B   | 456 (2015), 250-257.                     | 1.27          |          |
| 290     | Systematics of fusion evaporation in <sup>58</sup> Ni+ <sup>54</sup> Fe→ <sup>112</sup> Xe reaction around the Coulomb barrier.                      | M. Kaur and Manoj K. Sharma                                     | Euro J. of Phys A                                       | 50: 61 (2014)                            |               |          |

| Sr. No. | Title  | Author(s)   | Journal                   | Volume, Pages, Year           | Impact Factor | Citation |
|---------|--|---|---------------------------|-------------------------------|---------------|----------|
| 291     | Dynamics of light, heavy and super heavy nuclear systems formed in heavy ion collisions.   | Manoj K. Sharma and G. Kaur                             | Pramana – J. Phys.        | Vol. 82, No. 5, (2014)        |               |          |
| 292     | Analysis of fragment distribution and associated effects in $^{12,13}\text{C}$ induced reactions.  | M. Kaur, M K Sharma, Manoj K. Sharma                    | Int. J. Mod. Phys. E      | Vol. 23, No. 5 (2014) 1450030 | 0.842         |          |
| 293     | Role of rotational energy and deformations in the dynamics of $^6\text{Li}+^{90}\text{Zr}$ reaction.   | G. Kaur, N. Grover, K. Sandhu, Manoj K. Sharma          | Nuclear Physics A         | 927 (2014) 232–248            | 3             |          |
| 294     | Decay and related stability aspects of $^{266}\text{Rf}$ nucleus formed in $^{18}\text{O}+^{248}\text{Cm}$ reaction.                               | K. Sandhu, Manoj K. Sharma, A. Kaur, R. K. Gupta        | Phys. Rev. C              | 90, 034610 (2014)             | 3.5           |          |
| 295     | Study of reaction cross section of light mass nuclei using Glauber formalisms.   | M. K. Sharma, R. N. Panda, Manoj K. Sharma, S. K. Patra | Braz J Phys               | DOI 10.1007/s13538-014-0274-y |               |          |
| 296     | Fragment mass identification and related aspects in the decay of $^{40}\text{Ca}^*$ and $^{39}\text{K}^*$ nuclei.                                  | Gurvinder Kaur and Manoj K. Sharma                      | Int. J. of Mod. Phys. E   | Vol. 23 No. 10 (2014) 1450063 | 0.842         |          |
| 297     | Probing Nuclear Matter at the Extremes through application of Dynamical Cluster-decay Model to Superheavy Nuclei.                                  | Niyti, Manoj K. Sharma, K.Sandhu, R. K. Gupta           | Int. Rev. of Phys. IREPHY |                               |               |          |
| 298     | Systematic analysis of hot $\text{Yb}^*$ isotopes using energy density formalism.  | D. Jain, Manoj K. Sharma, Rajni, R. Kumar, R. K. Gupta  | Euro. Phys. J. A          | 50:155 (2014)                 |               |          |
| 299     | Formation and decay of $^{200}\text{Pb}^*$ using different incoming channels.  | Rajni, Raj Kumar and Manoj K. Sharma                    | Phys. Rev. C              | 90, 044604 (2014)             |               |          |
| 300     | Role of nuclear deformations and proximity interactions in heavy particle radioactivity.   | G. Sawhney, K. Sandhu, Manoj K. Sharma and R. K. Gupta  | Euro. Phys. J. A          | 50:175 (2014)                 |               |          |
| 301     | Role of nuclear deformations and proximity interactions in heavy particle radioactivity.   | G. Sawhney, K. Sandhu, Manoj K. Sharma and R. K. Gupta  | Euro. Phys. J. A          | 50:175 (2014)                 |               |          |
| 302     | Dynamics of $^{40,48}\text{Ca}+^{238}\text{U}\rightarrow^{278,286112}^*$ reactions across the Coulomb barrier using dynamical cluster decay model. | K.Sandhu, G.Kaur, Manoj K. Sharma.                      | Nuclear Physics A         | 921, 114, 2014                | 1.6           | ---      |
| 303     | Decay Mechanism of $^{290,292114}$ Superheavy Nuclei Formed in $^{48}\text{Ca}$ -Induced Reactions.  | K.Sandhu and Manoj K. Sharma                            | Braz J Phys               | 44, 64,2014                   | 0.6           | ----     |

| Sr. No. | Title   | Author(s)   | Journal       | Volume, Pages, Year | Impact Factor | Citation |
|---------|---|---|---------------|---------------------|---------------|----------|
| 304     | Effect of deformation and orientation on interaction barrier and fusion cross-sections using various proximity potentials.  | D. Jain, R. Kumar and Manoj K Sharma                                      | Nucl. Phys. A | 915, 106, 2013      | 1.6           | ----     |
| 305     | Theoretical study of odd-mass Fr isotopes using the collective clusterization approach of the dynamical cluster-decay model   | G.Sawhney, G. Kaur, Manoj K. Sharma,* and R K. Gupta.                     | Phys. Rev. C  | 88, 034603, 2013    | 3.4           | 2        |
| 306     | Dynamics of $^{66}\text{As}^*$ formed in exotic proton halo $^8\text{B}$ induced reaction at near barrier energies.   | G. Kaur, D. Jain, R. Kumar and Manoj K Sharma                             | Nucl. Phys A  | 916, 260,2013       | 1.6           | 1        |
| 307     | One-neutron and non-compound $\alpha$ -nucleus decay contributions in $^{12}\text{C}+^{93}\text{Nb}$ reaction at below barrier energies.  | S. Chopra, M. Bansal, Manoj K. Sharma and R. K Gupta                      | Phys. Rev. C  | 88, 014615,2013     | 3.4           | 3        |
| 308     | Fusion-evaporation residue and $\alpha$ -decay chains of superheavy element $Z=115$ formed in $^{243}\text{Am}+^{48}\text{Ca}$ reaction using dynamical cluster decay model.        | R. Kumar, K. Sandhu, Manoj K. Sharma and R.K. Gupta                       | Phys. Rev. C  | 87, 054610,2013     | 3.4           | 1        |
| 309     | Decay of $^{150,158}\text{Tb}^*$ nuclear systems formed in loosely bound $^6\text{Li}$ -induced reactions.  | Gurvinder Kaur and Manoj K. Sharma  | Phys. Rev. C  | 87, 44601,2013      | 3.4           | 2        |
| 310     | Reaction dynamics of $\text{Pt}^*$ isotopes formed using stable and radioactive $\text{Sn}$ beams   | Deepika Jain, Raj Kumar, and Manoj K. Sharma                              | Phys. Rev. C  | 87, 044612,2013     | 3.4           | 0        |
| 311     | Effects of deformations and orientations in the fission of the actinide nuclear system $^{254}\text{Fm}^*$ formed in the $^{11}\text{B} + ^{243}\text{Am}$ reaction.                | Manpreet Kaur, Manoj K Sharma and Raj K Gupta.                            | Phys. Rev. C  | 86, 064610, 2012    | 3.4           | 5        |
| 312     | Deformation and orientation effects in the decay of $^{268}\text{Sg}^*$ formed in a $^{30}\text{Si}$ -induced reaction across the Coulomb barrier.                                  | Kirandeep Sandhu, Manoj K Sharma, Raj K Gupta,                            | Phys. Rev. C  | 86, 064611,2012     | 3.4           | 5        |
| 313     | Decay of $^{241}\text{Pu}^*$ formed in $^9\text{Be}+^{232}\text{Th}$ around Coulomb barrier using static and dynamic deformations.  | Gudveen Sawhney, Raj Kumar and Manoj K Sharma.                            | Phys. Rev. C  | 86, 034613, 2012    | 3.4           | 3        |
| 314     | Dynamical cluster-decay model using various formulations of a proximity potential for compact non-coplanar nuclei: Application to the $^{64}\text{Ni} + ^{100}\text{Mo}$ reaction.. | Manie Bansal, Sahila Chopra, Raj K. Gupta, Raj Kumar, and Manoj K. Sharma | Phys. Rev. C  | 86, 034604, 2012    | 3.4           | 1        |
| 315     | Decay of $^{213,217}\text{Fr}^*$ systems formed in $^{19}\text{F}+^{194,198}\text{Pt}$ reactions at $E_{\text{cm}}=80\text{-}94$ MeV.   | Manoj K Sharma, Shefali kanwar and Raj K Gupta                            | Phys. Rev. C  | 85, 064602,2012     | 3.4           | 10       |

| Sr. No. | Title  | Author(s)  | Journal                      | Volume, Pages, Year | Impact Factor | Citation |
|---------|--|--|------------------------------|---------------------|---------------|----------|
| 316     | Systematic study of various proximity potentials in 208Pb daughter cluster radioactivity.  | Raj Kumar and Manoj K Sharma,                                  | Phys. Rev. C                 | 85, 054612,2012     | 3.4           | 7        |
| 317     | Compound and non compound nucleus contributions in evaporation residue cross-sections of $^{20}\text{Ne}+^{181}\text{Ta}\rightarrow^{201}\text{Bi}^*$ reaction at $E_{\text{cm}}=135$ MeV and 162 MeV.   | Gurvinder Kaur and Manoj K Sharma                              | Nucl. Phys. A,               | 884-885, 36, 2012   | 1.6           | 6        |
| 318     | Decay mechanism of $^{204}\text{Po}^*$ nucleus formed in $^{16}\text{O}$ and $^{28}\text{Si}$ induced reactions..  | Manpreet Kaur and Manoj K Sharma                               | Phys. Rev. C                 | 85, 054605          | 3.4           | 7        |
| 319     | Dynamical decay process of $^{219,220}\text{Ra}^*$ formed in $^{10,11}\text{B} + ^{209}\text{Bi}$ reactions.   | Gudveen Sawhney and Manoj K Sharma,                            | Eur. Phys. J. A              | 48-57,2012          | 2.0           | 4        |
| 320     | Skyrme forces and the fusion-fission dynamics of the $^{132}\text{Sn} + ^{64}\text{Ni} \rightarrow ^{196}\text{Pt}^*$ reaction. and R. K Gupta.  | D. Jain, R. Kumar, Manoj K. Sharma                             | Phys. Rev. C                 | 85, 024615, 2012    | 3.4           | 22       |
| 321     | Fusion-evaporation residue as a dynamical decay process in $^{48}\text{Ca}+^{249}\text{Bk}\rightarrow^{297117}^*$ reaction.  | Kirandeep Sandhu, Manoj K. Sharma and R. K. Gupta,             | Phys. Rev. C                 | 85 024604           | 3.4           | 20       |
| 322     | Systematic study of the decay of $^{118,122}\text{Ba}^*$ formed in $^{78,82}\text{Kr}$ induced reactions at $E_{\text{lab}}=5.5$ MeV/nucleon,  | M. Kaur, Raj Kumar and Manoj K. Sharma,                        | Phys. Rev. C                 | 85, 014609, 2012    | 3.4           | 24       |
| 323     | Fusion reaction cross-sections using the Wong model within Skyrme energy density based semiclassical extended Thomas Fermi approach.   | Raj Kumar, Manoj K Sharma and R. K Gupta,                      | Nucl. Phys. A                | 870-871 42, 2011    | 1.6           | 11       |
| 324     | Role of higher-multipole deformations in exotic $^{14}\text{C}$ cluster radioactivity  | Gudveen Sawhney, Manoj K. Sharma and R. K. Gupta               | Phys. Rev. C                 | 83, 064610, 2011    | 3.4           | 16       |
| 325     | Fusion excitation functions of $^{64}\text{Ni} + ^{112-132}\text{Sn}$ reactions studied on the dynamical cluster-decay model,  | Manoj K Sharma, S.Kanwar, G.Sawhney, R K Gupta W Greiner,      | J. Phys. G: Nucl. Part. Phys | 38, 055104,2011     | 5.4           | 22       |
| 326     | The decay of the compound nucleus $^{215}\text{Fr}^*$ formed in the $^{11}\text{B} + ^{204}\text{Pb}$ and $^{18}\text{O} + ^{197}\text{Au}$ reaction channels using the dynamical cluster-decay model, , | Manoj K Sharma, Gudveen Sawhney, R K Gupta and Walter Greiner  | J. Phys. G: Nucl. Part. Phys | 38, 105101,2011     | 5.4           | 22       |
| 327     | Entrance channel independence in the decay of $^{215}\text{Fr}^*$ nucleus,   | Manoj K Sharma, Gudveen Sawhney, Shefali Kanwar and R K Gupta, | Modern Physics letters A     | 25, 2022,2010       | 1.2           | 10       |

| Sr. No. | Title   | Author(s)  | Journal                            | Volume, Pages, Year  | Impact Factor | Citation |
|---------|---|--|------------------------------------|----------------------|---------------|----------|
| 328     | Cluster radioactivity with effects of deformations and orientations of nuclei included,                                   | S K. Arun, R K. Gupta, S Kanwar, BB Singh, & Manoj K. Sharma,    | Phys. Rev. C                       | 80, 034317,2009      | 3.4           | 25       |
| 329     | Decay of $^{202}\text{Pb}$ formed in $^{48}\text{Ca} + ^{154}\text{Sm}$ reaction using the dynamical cluster-decay model, | S Kanwar, Manoj K. Sharma, B B Singh, R K. Gupta and W. Greiner, | Int. J. of Mod. Phys. E            | 18, No. 7 1-15, 2009 | 0.6           | 16       |
| 330     | $^{208}\text{Pb}$ -daughter cluster radioactivity and the deformations and orientations of nuclei,                        | S K. Arun, R K. Gupta, B B Singh and Manoj K. Sharma             | Phys. Rev. C                       | 79, 064616,2009      | 3.4           | 24       |
| 331     | Medium mass fragment production due to momentum dependent interactions  | Sanjeev Kumar, Suneel Kumar and Rajeev K. Puri                   | Phys. Rev. C                       | 78, 064602 (2008)    | 3.416         | 2        |
| 332     | Elliptical flow and isospin effects in heavy ion collisions at intermediate energies                                      | Sanjeev Kumar, Suneel Kumar and Rajeev K. Puri                   | Phys. Rev. C                       | 81, 014611 (2010)    | 3.416         | 79       |
| 333     | Effect of symmetry energy in nuclear stopping and its relation to the production of light charged particles               | Sanjeev Kumar, Suneel Kumar and Rajeev K. Puri                   | Phys. Rev. C                       | 81, 014601 (2010)    | 3.416         | 80       |
| 334     | Experimental Balance energies and iso-spin dependent nucleon-nucleon cross-section  | Sanjeev Kumar, Rajni and Suneel Kumar                            | Phys. Rev. C                       | 82, 024610 (2010)    | 3.416         | 17       |
| 335     | Systematic study of multifragmentation in asymmetric colliding nuclei   | Varinderjit Kaur and Suneel Kumar                                | Phys. Rev. C                       | 81, 064610 (2010)    | 3.416         | 23       |
| 336     | Systematic study on system size dependence of global stopping: Role of momentum dependent interactions                    | Sanjeev Kumar and Suneel Kumar                                   | Chinese Physics Letters            | 27, 062504 (2010)    | 0.811         | 19       |
| 337     | A comparative study of model ingredients: Fragmentation in heavy ion collisions using quantum molecular dynamics model    | Sanjeev Kumar and Suneel Kumar                                   | Parmana Journal of Physics         | 74, 731 (2010)       | 0.562         | 9        |
| 338     | Effect of density dependent symmetry energy on fragmentation  | Karan Singh Vinayak and Suneel Kumar                             | Journal Physics: Conference Series | 381, 012032(2011).   | 0             | 0        |
| 339     | Mass independence and asymmetry of the reaction: Multifragmentation as an example.  | Varinderjit Kaur, Suneel Kumar and Rajeev K. Puri                | Journal Physics: Conference Series | 312, 082028 (2011).  | 0             | 0        |
| 340     | Rapidity distribution as a probe for elliptical flow at intermediate energies   | Sanjeev Kumar Varinderjit Kaur and Suneel Kumar                  | Central European J. of Physics     | 9, 986 (2011)        | 0.905         | 11       |
| 341     | On the nuclear stopping in asymmetric colliding nuclei  | Varinderjit Kaur, Suneel Kumar and Rajeev K. Puri                | Nucl. Phys. A                      | 861, 37 (2011)       | 1.525         | 16       |

| Sr. No. | Title   | Author(s)   | Journal                    | Volume, Pages, Year | Impact Factor | Citation |
|---------|---|---|----------------------------|---------------------|---------------|----------|
| 342     | On the elliptical flow in asymmetric colliding nuclei   | Varinderjit Kaur, Suneel Kumar and Rajeev K. Puri | Phys. Lett. B              | 697, 512 (2011)     | 4.569         | 46       |
| 343     | Correlation between balance energy and transition energy for symmetric colliding nuclei                                 | Rajni, Suneel Kumar and Rajeev K. Puri            | Phys. Rev. C               | 84, 037606 (2011)   | 3.416         | 2        |
| 344     | Multifragmentation around the transition energy in intermediate energy heavy ion collisions                             | Karan Singh Vinayak and Suneel Kumar              | Phys. Rev. C               | 83, 034614 (2011)   | 3.416         | 3        |
| 345     | On the elliptic flow in asymmetric collisions and nuclear equation of state   | Varinderjit Kaur and Suneel Kumar                 | Parmana Journal of Physics | 77, 1095 (2011)     | 0.562         | 2        |
| 346     | Influence of density dependent symmetry energy on elliptical flow   | Karan Singh Vinayak and Suneel Kumar              | Euro Phys. Jour. A         | 47, 144 (2011)      | 2.043         | 10       |
| 347     | Influence of charge asymmetry and isospin dependent cross-section on nuclear stopping                                   | Anupriya Jain, Suneel Kumar and Rajeev K. Puri    | Phys. Rev. C               | 84, 057602 (2011)   | 3.416         | 2        |
| 348     | Energy of vanishing flow in heavy-ion collisions: Role of mass asymmetry of a reaction.                                 | Varinderjit Kaur and Suneel Kumar                 | Parmana J. of Phys.        | 78, 237 (2012).     | 0.562         | 0        |
| 349     | Effect of isospin dependent cross section on fragmentation in the collision of charge asymmetric nuclei                 | Anupriya Jain and Suneel Kumar                    | Parmana J. of Phys.        | 78, 749 (2012)      | 0.562         | 0        |
| 350     | Influence of charge asymmetry and isospin dependent cross section on elliptical flow.                                   | Anupriya Jain , Suneel Kumar and Rajeev K. Puri   | Phys. Rev. C               | 85, 064608 (2012)   | 3.416         | 8        |
| 351     | The study of participant spectator matter and thermalization for charge asymmetric collision.                           | Anupriya Jain and Suneel Kumar                    | Physica Scripta            | 85, 065306(2012).   | 1.032         | 0        |
| 352     | Thermalization and temperature reached in heavy ion collision using isospin dependent quantum molecular dynamics model. | Karan Singh Vinayak and Suneel Kumar              | Euro. Phys. J. A           | 48, 96 (2012).      | 2.043         | 0        |
| 353     | Phase space analysis of fragmentation and role of mass asymmetry.   | Varinderjit Kaur and Suneel Kumar                 | J. Phys. G. Nucl. & Part.  | 39, 085114 (2012).  | 5.326         | 0        |
| 354     | Phase space analysis on origin of anisotropic flow.   | Anupriya Jain and Suneel Kumar                    | Int. J. of Modern Phys. E  | 21, 1250071 (2012). | 0.625         | 0        |
| 355     | Effect of density dependent symmetry energy on nuclear stopping.  | Karan Singh Vinayak and Suneel Kumar              | J. Phys. G. Nucl. & Part.  | 39, 095105 (2012).  | 5.326         | 0        |



| Sr. No. | Title   | Author(s)   | Journal  | Volume, Pages, Year | Impact Factor | Citation |
|---------|---|---|--|---------------------|---------------|----------|
| 356     | On the role of density dependent symmetry energy and momentum dependent interactions in multifragmentation.                           | Karan Singh Vinayak and Suneel Kumar                | Phys. of Particle & Nuclei                       | 9, 583 (2012).      | 0.672         | 0        |
| 357     | Influence of momentum dependent interactions in nuclear stopping in symmetric heavy ion collisions                                    | Mandeep Kaur and Suneel Kumar                       | Ukrainian Journal of Physics                     | 57, 289(2012).      | 0             | 0        |
| 358     | Probing the effect of different cross-section in asymmetric systems.  | Deepinder Kaur, Varinderjit Kaur and Suneel Kumar   | Ukrainian Journal of Physics                     | 57, 806(2012).      | 0             | 0        |
| 359     | On the multifragmentation around the energy of vanishing flow using isospin dependent model   | Rajni, Suneel Kumar and Rajeev K. Puri              | Nucl. Phys. A                                    | 875, 173 (2012)     | 1.525         | 2        |
| 360     | Anisotropic distribution of nucleon participating in elliptical flow  | Anupriya Jain and Suneel Kumar                      | Nucl. Phys. A                                    | 876, 109 (2012)     | 1.525         | 3        |
| 361     | Effect of scaled Gaussian width (SGW) on fragment flow and multifragmentation in heavy ion collisions                                 | Rajni and Suneel Kumar                              | Euro Phys. Jour. A                               | 48, 19 (2012)       | 2.043         | 3        |
| 362     | On the fragment mass independence of balance energy.  | Anupriya Jain and Suneel Kumar                      | Physica Scripta                                  | 88, 025201(2013)    | 1.032         | 0        |
| 363     | Optimizing the rapidity limit for nuclear stopping in intermediate energy heavy ion collisions  | Karan Singh Vinayak and Suneel Kumar                | Phys. of Atomic Nuclei                           | 76, 286(2013).      | 0.539         | 0        |
| 364     | Dependence of the energy of vanishing flow on different components of nuclear potential   | Mandeep Kaur, Varinderjit Kaur and Suneel Kumar     | Phys. Rev. C                                     | 88, 054620 (2013).  | 3.416         | 0        |
| 365     | Assessment of multifragmentation under the effect of symmetry energy  | Rubina Bansal and Suneel Kumar                      | Physics of Elementary particle and Atomic Nuclei | 10, 693 (2013).     | 0.539         | 0        |
| 366     | Effect of momentum dependent interactions and nucleonic cross-section on directed flow( $v_1$ )                                       | Anupriya Jain, Karan Singh Vinayak and Suneel Kumar | Annals of Physics                                | 334, 334 (2013).    | 3.318         | 0        |
| 367     | Impact of momentum dependent equation of state and isospin dependent cross section on the neutron-proton differential elliptical flow | Suneel Kumar and Karan Singh Vinayak                | AIP Conference Proceeding                        | 1524, 228(2013)     | 0             | 0        |
| 368     | Isospin effects on fragmentation in heavy ion collisions  | Rubina Bansal and Suneel Kumar, ,                   | AIP Conference Proceeding                        | 1524, 232 (2013).   | 0             | 0        |

| Sr. No. | Title   | Author(s)   | Journal                        | Volume, Pages, Year                  | Impact Factor | Citation |
|---------|---|---|--------------------------------|--------------------------------------|---------------|----------|
| 369     | Consequence of isospin effects on the rapidity distribution of anisotropic flow   | Suneel Kumar and Anupriya Jain  | AIP Conference Proceeding      | 1524, 247 (2013).                    | 0             | 0        |
| 370     | Analyzing the role of isospin content and colliding geometry on transition energy for symmetric colliding nuclei.   | Anupriya Jain and Suneel Kumar  | Physica Scripta                | 89, 035301 (2014).                   | 1.032         | 0        |
| 371     | Analyzing the role of fragment charge on nuclear stopping for symmetric colliding nuclei.   | Anupriya Jain, T. Sahil and Suneel Kumar  | Acta Phys. Polo B              | 45, 451 (2014).                      | 1.01          | 0        |
| 372     | Impact of density dependent symmetry energy and Coulomb interactions on the evolution of intermediate mass fragments  | Karan Singh Vinayak and Suneel Kumar  | Parmana J. of Phys.            | 20, 1 (2014).                        | 0.562         | 0        |
| 373     | Study of various potentials in heavy ion collisions at intermediate energies  | Varinderjit Kaur, Mandeep Kaur and Suneel Kumar   | Nucl. Data Sheets              | in press (2014).                     | 2.701         | 0        |
| 374     | Electrical and Magnetic Properties of Multiferroic - BiFeO <sub>3</sub> - CoFe <sub>2</sub> O <sub>4</sub> Nanocomposite Thin Films Derived by Sol-gel Process          | Mintu Tyagi, Ratnamala Chatterjee, Mukesh Kumari, An-Cheng Sun, Puneet Sharma   | IEEE Transaction on Magnetics, | Vol. 50, No. 1, 2014                 | 1.422         | 0        |
| 375     | Structural, optical and ferroelectric behavior of pure BiFeO <sub>3</sub> thin films synthesized by the sol-gel method  | M. Tyagi, R. Chatterjee, P. Sharma  | J. Mater. Sci.-Mater. Electron | 26, 1987-1992, 2015                  | 1.98          | 0        |
| 376     | Improved dielectric and magnetic properties of multiferroic BiFeO <sub>3</sub> -NiFe <sub>2</sub> O <sub>4</sub> nanocomposite thin films                               | M. Tyagi, R. Chatterjee, P. Sharma  | J. Sol-Gel Sci. Technol.       | DOI:10.1007/s10971-015-3650-3 (2015) | 1.67          | 0        |
| 377     | Raman scattering spectra, magnetic and ferroelectric properties of BiFeO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> nanocomposite thin films structure              | M. Tyagi, Mukesh Kumari, R. Chatterjee, P. Sharma   | Physica B.                     | 448 128-131 (2014).                  | 1.276         | 0        |
| 378     | Fabrication of L11 phase CoPt film on glass substrate with [Co/Pt] multilayer structure   | Chuan-Fa Huang, An-Cheng Sun, Hsian-Yuan Wu, Fe-Te Yuan, Jen-Hwa Hsu, S. N. Hsiao, H. Y. Lee, Hsi-Chuan Lu, Sea-Fue Wang, Puneet Sharma | IEEE Transaction on Magnetics  | 50, 3201804, 2014                    | 1.21          | 0        |
| 379     | Structure and Magnetic Properties of Ba <sub>1-x</sub> La Fe <sub>12</sub> O <sub>19</sub> Prepared by Ba <sub>1-x</sub> La <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> | Samiksha Verma, O.P. Pandey, Andrea Paesano Jr. An-Cheng Sun, Puneet Sharma   | IEEE Transaction on Magnetics  | 50, 2101004, 2014                    | 1.21          | 0        |

| Sr. No. | Title  | Author(s)  | Journal                                     | Volume, Pages, Year    | Impact Factor | Citation |
|---------|--|--|---|------------------------|---------------|----------|
| 380     | Comparison of structural and magnetic properties of La <sup>3+</sup> substituted BaFe <sub>12</sub> O <sub>19</sub> prepared by different substitution methods | Samiksha Verma, O.P. Pandey, Andrea Paesano, Dr. Puneet Sharma                 | Physica B                                   | 448, 57-59, (2014)     | 1.276         | 0        |
| 381     | Lateral grain size effect on exchange bias in polycrystalline NiFe/FeMn bilayer films  | Jen Hwa Hsu, Ancheng Sun, Puneet Sharma  | Thin Solid Films                            | 542 (2013) 87-90       | 1.604         | 0        |
| 382     | A study of hybrid bonded magnets of Sm-Co and Sr-ferrite using mixture design  | Puneet Sharma  | Journal of Applied Physics                  | 111, 07B510 (2012)     | 2.21          | 5        |
| 383     | Antibacterial activity of silver: The role of hydrodynamic particle size at nanoscale  | Khurana C, Vala AK, Andhariya N, Pandey OP, Chudasama B                        | J Biomed Mater Res A.                       | 102(10), 3361-8, 2014  | 2.841         | 2        |
| 384     | Single step synthesis of pluronic stabilized IR responsive gold nanoplates   | Parveer Kaur and Bhupendra Chudasama   | RSC Adv.                                    | 4, 36006-36011 (2014), | 3.708         | 0        |
| 385     | Folic acid conjugated magnetic drug delivery system for controlled release of doxorubicin  | Nidhi Andhariya, R.V. Upadhya, R.V. Mehta, Bhupendra Chudasama                 | Journal of Nanoparticle Research            | 15, 1416-9 2013        | 2.175         | 1        |
| 386     | Green synthesis of silver nanoparticles using marine-derived fungus <i>Aspergillus niger</i>   | A.K. Vala, B. Chudasama, R. Patel  | Micro & Nano Letters                        | 7(8), 859-862 2012     | 0.845         | 1        |
| 387     | Nanoengineering of methylene blue loaded silica encapsulated magnetite nanospheres and nanocapsules for photodynamic therapy                                   | Nidhi Andhariya, R.V. Upadhya, R.V. Mehta, Bhupendra Chudasama                 | Journal of Nanoparticle Research            | 13, 3619-3631 2011     | 2.175         | 4        |
| 388     | Antifungal activity of multifunctional Fe <sub>3</sub> O <sub>4</sub> -Ag nanocolloids   | Bhupendra Chudasama, Anjana Vala, Nidhi Andhariya, R.V. Upadhya and R.V. Mehta | Journal of Magnetism and Magnetic Materials | 323, 1233-37 2011      | 1.826         | 9        |
| 389     | Biodegradable Thermoresponsive Polymeric Magnetic Nanoparticles: A New Drug Delivery Platform for Doxorubicin  | Nidhi Andhariya, R.V. Upadhya, R.V. Mehta, Bhupendra Chudasama                 | Journal of Nanoparticle Research            | 13, 1677-88 2011       | 2.175         | 12       |
| 390     | Highly bacterial resistant silver nanoparticles: Synthesis and antibacterial activities  | Bhupendra Chudasama, Anjana Vala, Nidhi Andhariya, R.V. Upadhya and R.V. Mehta | Journal of Nanoparticle Research            | 12, 1677-85 2010       | 2.175         | 20       |

| Sr. No. | Title  | Author(s)   | Journal                                     | Volume, Pages, Year                | Impact Factor | Citation |
|---------|--|---|---|------------------------------------|---------------|----------|
| 391     | Enhanced antibacterial activity of bifunctional Fe <sub>3</sub> O <sub>4</sub> -Ag core-shell nanostructures | Bhupendra Chudasama, Anjana Vala, Nidhi Andhariya, R.V. Upadhyay and R.V. Mehta | Nano Research                               | 2, 955-965<br>2009                 | 7.392         | 33       |
| 392     | Hydrodynamics of chains in ferrofluid-based magnetorheological fluids under rotating magnetic field          | Rajesh Patel, Bhupendra Chudasama   | Physical Review E                           | 80, 012401<br>2009                 | 2.313         | 6        |
| 393     | Experimental investigation of magnetically induced unusual emission of light from a ferrodispersion          | R.V. Mehta, Rajesh Patel, Bhupendra Chudasama and R.V. Upadhyay                 | Optics Letters                              | 33, 1987-89<br>2008                | 3.399         | 8        |
| 394     | Field induced rotational viscosity of ferrofluid : Effect of capillary size and magnetic field direction     | Nidhi Andhariya, Bhupendra Chudasama, Rajesh Patel, R.V. Upadhyay, R.V. Mehta   | J. Colloid & Interface Sci.                 | 323, 153<br>2008                   | 3.172         | 13       |
| 395     | Effect of dielectric and magnetic contrast on photonic band gap in ferrodispersion                           | R.V. Mehta, R. J. Patel, B.N. Chudasama, H.B. Desai, R.V. Upadhyay              | Magneto hydrodynamics,                      | 44(1), 69<br>2008                  | 0.550         | 02       |
| 396     | Paramagnetic to ferromagnetic transition and superparamagnetic blocking in Ni(OH) <sub>2</sub> Nanoparticles | S. D. Tiwari & K. P. Rajeev   | Phys. Rev. B                                | 77, 224430<br>(2008).              | 3.767         | 6        |
| 397     | Effect of distributed Particle magnetic moments on the magnetization of NiO nanoparticles                    | S. D. Tiwari & K. P. Rajeev   | Solid State Communications                  | 152, 1080<br>(2012).               | 1.534         | 1        |
| 398     | Estimation of particle magnetic moment distribution for antiferromagnetic ferrihydrite nanoparticles         | Chandni Rana & S. D. Tiwari   | Journal of Magnetism and Magnetic Materials | Accepted<br>(2015)                 | 2.002         | -        |
| 399     | Strong Decay widths and coupling constant of recent charm mesons states                                      | M.Batra, A.Upadhyay   | EPJC  | Accepted<br>(2015)                 |               |          |
| 400     | Even and odd parity heavy light charm mesons   | A.Upadhyay, M.Batra   | Advance in High energy physics<br>(2015 )   |                                    |               |          |
| 401     | Gluonic contribution to the nucleon self-energy in an effective theory                                       | Alka Upadhyay, J.P. Singh   | Advance in High energy Physics              | (2014) 841703.                     |               |          |
| 402     | Importance of Non-Perturbative QCD Parameters for Bottom Mesons  | Upadhyay, Meenakshi Batra   | Advance in High energy Physics              | (2014) Article ID 619783, 4 pages. |               |          |

| Sr. No. | Title  | Author(s)                                     | Journal  | Volume, Pages, Year                        | Impact Factor | Citation |
|---------|--|---|--|--|---------------|----------|
| 403     | Strange and non-strange sea quark-gluon effects in nucleons,   | M. Batra, A. Upadhyay,                        | Nuclear Physics A,   | 922, (2014)126-139                         | 1.576         |          |
| 404     | Strange Mass Corrections to Hyperonic Semi-Leptonic Decay in Statistical Model   | A. Upadhyay, M. Batra,                        | Eur. Phys. J. A  | (2013) 49: 160.                            | 2.043         |          |
| 405     | Detailed Balance and Spin Content of $\Lambda$ using Statistical Model   | M. Batra, A. Upadhyay,                        | IJMPA  | 28(15)<br>(2013)1350062                    | 1.127         |          |
| 406     | Phenomenology of neutrino oscillation in vacuum and matter,  | A Upadhyay, M. Batra,                         | ISRN-HEP   | Vol. 2013,<br>Article ID<br>206516,(2013). |               |          |
| 407     | Importance of sea contributions to nucleons,   | M. Batra & A. Upadhyay,                       | NPA  | 889 (2012) 18-28                           | 1.576         |          |
| 408     | Study of dielectric, magnetic and ferroelectric properties in Bi <sub>1-x</sub> Gd <sub>x</sub> FeO <sub>3</sub>       | P Uniyal and K. L. Yadav                      | Materials Letters  | 62, 2858-2861, 2008                        | 2.117         | 51       |
| 409     | Observation of the room temperature magnetoelectric effect in Dy doped BiFeO <sub>3</sub>                              | P Uniyal and K L. Yadav                       | J. Phys. Condensed Matter  | 21, 012205, 2009                           | 2.54          | 23       |
| 410     | Room temperature multiferroic properties of Eu doped BiFeO <sub>3</sub>  | P Uniyal and K L. Yadav                       | J. Appl. Phys  | 105, 07D914, 2009                          | 2.201         | 24       |
| 411     | Pr doped bismuth ferrite ceramics with enhanced multiferroic properties  | P Uniyal and K L. Yadav                       | J. Phys. Condensed Matter  | 21, 405901, 2009                           | 2.54          | 25       |
| 412     | Synthesis and study of multiferroic properties of ZnFe <sub>2</sub> O <sub>4</sub> -BiFeO <sub>3</sub> nanocomposites  | P Uniyal and K L. Yadav                       | J. Alloys and Compounds  | 492, 406-410, 2010                         | 2.332         | 13       |
| 413     | Enhanced magnetoelectric properties in Bi <sub>0.95</sub> Ho <sub>0.05</sub> FeO <sub>3</sub> polycrystalline ceramics | P Uniyal and K L. Yadav                       | J. Alloys and Compounds  | 511, 149-153, 2012                         | 2.332         | 7        |
| 414     | Dielectric and magnetic properties of Bi <sub>1-x</sub> Y <sub>x</sub> FeO <sub>3</sub> ceramics                       | A Gautam, P Uniyal, K L. Yadav and V S Rangra | J. Phys. Chem. Solids.   | 73, 188-192, 2012                          | 1.632         | 1        |
| 415     | Effect of dysprosium doping on structural, dielectric and ferroelectric properties of PLZT (65/35) ceramics            | M Kaur, N Sharma, P Uniyal                    | PROCEEDING OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN APPLIED PHYSICS ... | 2013                                       | -             | -        |
| 416     | Size-dependent magnetic and dielectric properties of Tb-doped BiFeO <sub>3</sub> nanoparticles                         | G Dhir, GS Lotey, P Uniyal, NK Verma          | Journal of Materials Science: Materials in Electronics                         | 24 (11), 4386-4392, 2013                   | 1.966         | 6        |

| Sr. No. | Title   | Author(s)   | Journal  | Volume, Pages, Year   | Impact Factor | Citation |
|---------|---|---|--|-----------------------|---------------|----------|
| 417     | Multiferroic Properties of (Bi <sub>0.9</sub> Gd <sub>0.1</sub> FeO) 1- x (BaTiO <sub>3</sub> ) x Ceramics                              | P Uniyal, GS Lotey, A Gautam, NK Verma, KL Yadav                            | Journal of Superconductivity and Novel Magnetism       | 27 (2), 569-574, 2014 | 0.930         | -        |
| 418     | Effect of Particle Size on Magnetic and Dielectric Properties of Nanoscale Dy-Doped BiFeO <sub>3</sub>                                  | G Dhir, P Uniyal, NK Verma  | Journal of Superconductivity and Novel Magnetism       | 27 (6), 569-574, 2014 | 0.930         | -        |
| 419     | Effect of particle size on multiferroism of barium-doped Bismuth ferrite nanoparticles.   | G Dhir, P Uniyal, NK Verma  | Materials Science in Semiconductor Processing          | 27, 611-618, 2014     | 1.761         | 1        |
| 420     | Particle size dependent multiferroic properties of Bi <sub>0.95</sub> Tb <sub>0.05</sub> FeO <sub>3</sub> nanoparticles                 | G Dhir, P Uniyal, NK Verma  | Journal of Materials Science: Materials in Electronics | 2015                  | 1.966         | -        |
| 421     | Tensile Stress-Dependent Fracture Behavior and Its Influences on Photovoltaic Characteristics in Flexible PbS/CdS Thin-Film Solar Cells | S.M. Lee, D.H. Yeon, B.C. Mohanty, Y.S. Cho,                                | ACS Appl. Mater. Interfaces                            | 7, 4573 (2015)        | 5.900         | 0        |
| 422     | Single Elementary Target-Sputtered Cu <sub>2</sub> ZnSnSe <sub>4</sub> Thin Film Solar Cells,   | Y. H. Jo, B. C. Mohanty, D. H. Yeon, S. M. Lee and Y. S. Cho                | Solar Energy Mater. Solar Cells                        | 132, 136 (2015)       | 5.030         | 0        |
| 423     | RF power dependence of refractive index of room temperature sputtered ZnO:Al thin films,  | B. C. Mohanty, D. H. Yeon, J. H. Yun, K. H. Yoon and Y. S. Cho,             | Appl. Phys. A  | 115, 347 (2015)       | 1.694         | 0        |
| 424     | In situ magnetic field-assisted low temperature atmospheric growth of GaN nanowires via the vapor- liquid-solid mechanism               | J. S. Kim, B. C. Mohanty, C. S. Han, S. J. Han, G. H. Ha, L. Lin, Y. S. Cho | ACS Appl. Mater. Interfaces                            | 6, 116 (2014).        | 5.008         | 0        |
| 425     | Unusual near-band-edge photoluminescence at room temperature in heavily-doped ZnO:Al thin films prepared by pulsed laser deposition     | B. C. Mohanty, D. H. Yeon, S. N. Das, J. H. Kwak, K. H. Yoon, and Y. S. Cho | Mater. Chem. Phys.                                     | 140, 610 (2013)       | 2.072         | 0        |
| 426     | Phase Development, Microstructure and Optical Properties of Cu <sub>2</sub> ZnSnSe <sub>4</sub> Thin Films Modified with Pb and Ti      | S.M. Lee, B.C. Mohanty, Y.H. Jo, D.H. Yeon and Y.S. Cho                     | Surf. Coat. Tech.                                      | 231, 389 (2013)       | 1.941         | 1        |
| 427     | Surface Scaling Evolution and Dielectric Properties of Sputter-Deposited Low Loss Mg <sub>2</sub> SiO <sub>4</sub> Thin Films           | C.S. Han, B.C. Mohanty, H.R. Choi and Y.S. Cho,                             | Surf. Coat. Tech.                                      | 231, 229 (2013).      | 1.941         | 0        |

| Sr. No. | Title  | Author(s)  | Journal                 | Volume, Pages, Year | Impact Factor | Citation |
|---------|--|--|-------------------------|---------------------|---------------|----------|
| 428     | Effective Laser Sealing Enabled by Glass Thick Films Containing Carbon Black/Carbon Nanotube   | O.H. Kwon, B.C. Mohanty, D.H. Yeon, J.S. Yeo, I.H. Cho, K.H. Lee and Y.S. Cho,       | J. Am. Ceram. Soc.      | 96, 1113 (2013)     | 2.107         | 1        |
| 429     | Sputter-deposited low loss Mg <sub>2</sub> SiO <sub>4</sub> thin films for multilayer hybrids  | C. S. Han, B. C. Mohanty, C. Y. Kang, Y. S. Cho,                                     | Thin Solid Films        | 527, 250 (2013)     | 1.604         | 0        |
| 430     | Structural and Raman scattering properties of ZnO:Al thin films sputter-deposited at room temperature  | B. C. Mohanty, B. K. Kim, D. H. Yeon, Y. H. Jo, I. J. Choi, S. M. Lee and Y. S. Cho, | J. Electrochem. Soc.    | 159, H96 (2012).    | 2.588         | 0        |
| 431     | Barium Neodymium Titanium Borate Glass-Based High k Dielectrics  | S. M. Lee, Y. H. Jo, H. E. Kim, B. C. Mohanty and Y. S. Cho,                         | J. Am. Ceram. Soc.      | 95, 1356 (2012).    | 2.107         | 2        |
| 432     | Dopant induced variations in microstructure and optical properties of CeO <sub>2</sub> nanoparticles   | B. C. Mohanty, J. W. Lee, D. H. Yeon, Y. H. Jo and Y. S. Cho                         | Mater. Res. Bulletin.   | 46, 875 (2011).     | 1.913         | 4        |
| 433     | Fluctuations in global surface scaling behavior in sputter deposited ZnO thin films  | B. C. Mohanty, H. R. Choi and Y. S. Cho,   | EPL (Europhysics Lett.) | 96, 26003 (2011).   | 2.260         | 1        |
| 434     | Spatial variation in structural, morphological and optical properties of aluminum-doped ZnO thin films grown by 30°- incident radio frequency magnetron sputtering | B. C. Mohanty, Deuk Ho Yeon, Byeong Kon Kim, and Y. S. Cho,                          | J. Electrochem. Soc.    | 158,P30 (2011)      | 2.588         | 1        |
| 435     | Thickness-dependent fracture behavior of flexible ZnO:Al thin films,   | B. C. Mohanty, H. R. Choi, Y. M. Choi and Y. S. Cho,                                 | J. Phys. D: Appl. Phys. | 44, 025401 (2011).  | 2.528         | 1        |
| 436     | Effect of Zn and Ca modifications on crystallization and microwave dielectric properties of lanthanum borates,   | Y. H. Jo, S. H. N. Doo, J. S. Lee, B. C. Mohanty, Y. S. Cho,                         | J. Alloys Compd.        | 509, 849 (2011)     | 2.390         | 3        |
| 437     | Preparation and Electrical Properties of CuInSe <sub>2</sub> Thin Films by Pulsed Laser Deposition Using Excess Se Targets,  | D. H. Yeon, B. C. Mohanty, Y. H. Jo and Y. S. Cho,                                   | J. Mater. Res.          | 25, 1936 (2010)     | 1.713         | 0        |
| 438     | Enhanced Electrical Properties of Pulsed Laser-Deposited CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> Thin Films via Processing Control,                  | Y. H. Jo, B. C. Mohanty and Y. S. Cho,   | Solar Energy            | 84, 2213 (2010)     | 2.952         | 5        |

| Sr. No. | Title   | Author(s)  | Journal                           | Volume, Pages, Year   | Impact Factor | Citation |
|---------|---|--|-----------------------------------|-----------------------|---------------|----------|
| 439     | AlN passivation layer-mediated improvement in tensile failure of flexible ZnO:Al thin films,  | H. R. Choi, B. C. Mohanty, J. S. Kim and Y. S. Cho,  | ACS Appl. Mater. Interface.       | 2, 2471 (2010)        | 5.008         | 1        |
| 440     | Crystallization and surface segregation in CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> thin films on Cu foils grown by pulsed laser deposition, | Y. H. Jo, B. C. Mohanty, and Y. S. Cho,  | Appl. Surf. Sci.                  | 256, 6819 (2010)      | 2.112         | 13       |
| 441     | Enhanced Quality Factor of Zinc Lanthanum Borates-Based Dielectrics via the Control of ZnO/B <sub>2</sub> O <sub>3</sub> Ratio,                           | S. H. N. Doo, Y. H. Jo, J. S. Lee, B. C. Mohanty, K. C. Sekhar, D. K. Min, K. W. Chung and Y. S. Cho | J. Am. Ceramic Soc.               | 93, 334 (2010)        | 2.107         | 4        |
| 442     | Stress-induced anomalous shift of optical band gap in ZnO:Al thin films,  | B. C. Mohanty, Y. H. Jo, D. H. Yeon, I. J. Choi, and Y. S. Cho                                       | Appl. Phys. Lett.                 | 95, 062103 (2009)     | 3.794         | 30       |
| 443     | Scaling of Surface Roughness in Sputter-Deposited ZnO:Al Thin Films,  | B. C. Mohanty, H. R. Choi and Y. S. Cho,   | J. Appl. Phys.                    | 106, 054908 (2009).   | 2.210         | 7        |
| 444     | Micro-Raman spectroscopy studies of bulk and thin films of CuInTe <sub>2</sub> ,  | M. R. Ananthan, B. C. Mohanty and S. Kasiviswanathan   | Semiconductor Sci. Technol.       | 24, 075019 (2009)     | 1.921         | 2        |
| 445     | Structural and Electrical Characteristics of ZnO Thin Films on Polycrystalline AlN Substrates   | Y. H. Jo, B. C. Mohanty and Y. S. Cho,   | J. Am. Ceram. Soc.                | 92, 665 (2009)        | 2.107         | 4        |
| 446     | Chemical durability of anorthite-based low temperature co-fired ceramics,   | W. B. Lim, D.W. Shin, B. C. Mohanty, Y. J. Park, and Y. S. Cho,                                      | J. Ceramic Soc. Jpn               | 117, 1138 (2009)      | 0.940         | 1        |
| 447     | Characterization of silver selenide thin films grown on Cr-covered Si substrates,   | B.C. Mohanty, P. Malar, T. Osipowicz, B. S. Murty, S. Varma and S. Kasiviswanathan,                  | Surf. Interface Anal.,            | 41, 170 (2009)        | 1.220         | 2        |
| 448     | Thermal, dielectric and microwave absorption properties of polyaniline-CoFe <sub>2</sub> O <sub>4</sub> nanocomposites                                    | Namita Gandhi, K. Singh, A. Ohlan, D. P. Singh, S. K. Dhawan   | Comp. Sci. Tech.                  | 71, 1754-1760 (2011)  | 3.328         | 18       |
| 449     | Effect of voltage sweep direction on the performance evaluation of P3HT:PCBM solar cells  | P. Kumar, A. Sharma, D. P. Singh   | Prog. Photovoltaic s : Res. Appl. | 21, 950-959 (2013).   | 7.712         | 1        |
| 450     | Synthesis and characterization of Ferroelectric bismuth titanate (Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> )                                       | P. Gupta, Balram, D. P. Singh  | AIP Conf. Proceeding              | 1591, 565-567 (2014). |               |          |



| Sr. No. | Title   | Author(s)   | Journal  | Volume, Pages, Year   | Impact Factor | Citation |
|---------|---|---|--|-----------------------|---------------|----------|
| 451     | Self-trapped elliptical super-Gaussian beam in cubic-quintic media  | Soumendu Jana, Ajitpal Singh, K. Porsezian, T. Mithun         | Optics Communications, Elsevier Science BV   | 332, 311-320 (2014)   | 1.542         |          |
| 452     | SFM – Topographic Imaging   | Loveleen K. Brar  | Proceedings of “A short term school on Emerging trends and physics in nano electronics and materials design” | None, 10-15, May 2014 | 0             | 0        |
| 453     | Thermal stability and structural properties of Ta nanopowder synthesized via simultaneous reduction of Ta <sub>2</sub> O <sub>5</sub> by hydrogen and carbon. | Loveleen K. Brar, Gourav Singla, Navjot Kaur and O. P. Pandey | Journal of Thermal Analysis and Calorimetry  | 119, 175-182, 2015    | 2.206         | 0        |
| 454     | Evolution of structural and thermal properties of carbon-coated TaC nanopowder synthesized by single step reduction of Ta-ethoxide                            | Loveleen K. Brar, Gourav Singla and O. P. Pandey              | RSC Advances   | 5, 1406-1416, 2015    | 3.708         | 0        |

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|     | Title of the paper   | Name of the Journal with volume, page nos., year  | Name of the authors                         | Impact Factor |
|-----|--|---|---|---------------|
| 1.  | Preparation, Surface and Crystal Structure, Band Energetics, Optoelectronic, and Photocatalytic Properties of AuCd1- xS Nanorods                   | <i>ChemPlusChem.</i> (2015), DOI: 10.1002/cplu.201402388                                | Singh, R., Pal, B.                          | 3.24          |
| 2.  | Shape Dependent Thermal Conductivity of TiO <sub>2</sub> -Deionized Water and Ethylene Glycol Dispersion   | <i>Journal of Nanoscience and Nanotechnology,</i> (2015), 3670-3676                     | Pal, B., Mallick, S.S., Pal, B.             | 1.33          |
| 3.  | Tuning the optical and photocatalytic properties of anisotropic ZnS nanostructures for the selective reduction of nitroaromatics                   | <i>Chemical Engineering Journal,</i> (2015), 200-208                                    | Pal, B., Pal, B.                            | 4.01          |
| 4.  | Highly dispersed Au, Ag and Cu nanoparticles in mesoporous SBA-15 for highly selective catalytic reduction of nitroaromatics                       | <i>RSC Advances,</i> (2015), 184-190  | Sareen, S., Mutreja, V., Singh, S., Pal, B. | 3.7           |
| 5.  | Improved catalytic activity and surface electro-kinetics of bimetallic Au-Ag core-shell nanocomposites   | <i>New Journal of Chemistry,</i> (2015), 304-313  | Monga, A., Pal, B.                          | 3.4           |
| 6.  | Influence of Different Reducing Agents on the Ag Nanostructures and Their Electrokinetic and Catalytic Properties                                  | <i>Journal of Nanoscience and Nanotechnology,</i> (2015), 37-53-2760                    | Rana, S., Pal, B., Kaur, R.                 | 1.33          |
| 7.  | Homogeneous dispersion of Au nanoparticles into mesoporous SBA-15 exhibiting improved catalytic activity for nitroaromatic reduction               | <i>Microporous and Mesoporous Materials,</i> (2015), 219-225                            | Sareen, S., Mutreja, V., Singh, S., Pal, B. | 3.5           |
| 8.  | Photodegradation of imidacloprid insecticide by ag-deposited titanate nanotubes: A study of intermediates and their reaction pathways              | <i>Journal of Agricultural and Food Chemistry,</i> (2014), 12497-12503                  | Grover, I.S., Singh, S., Pal, B.            | 3.3           |
| 9.  | Influence of coinage and platinum group metal co-catalysis for the photocatalytic reduction of m-dinitrobenzene by P25 and rutile TiO <sub>2</sub> | <i>Journal of Molecular Catalysis A: Chemical,</i> (2014), 99-105                       | Kaur, J., Singh, R., Pal, B.                | 3.7           |
| 10. | Anisotropic CuO nanostructures of different size and shape exhibit thermal conductivity superior than typical bulk                                 | <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> (2014), 282-289 | Pal, B., Mallick, S.S., Pal, B.             | 2.4           |

|     | <b>Title of the paper</b>  | <b>Name of the Journal with volume, page nos., year</b>  | <b>Name of the authors</b>       | <b>Impact Factor</b> |
|-----|--|--|----------------------------------|----------------------|
|     | powder   |  |                                  |                      |
| 11. | Influence of thermal treatment and Au-loading on the growth of versatile crystal phase composition and photocatalytic activity of sodium titanate nanotubes                | <i>RSC Advances</i> (2014), 51342-51348  | Grover, I.S., Singh, S., Pal, B. | 3.7                  |
| 12. | Influence of CuO Nanostructures on the Thermal Conductivity of DI Water and Ethylene Glycol Based Nanofluids   | <i>Particulate Science and Technology: An International Journal</i> (2014), 10.1080/02726351.2014.953647 | Pa, B., Pal, B.                  | 0.49                 |
| 13. | 100% selective yield of m-nitroaniline by rutile TiO <sub>2</sub> and m-phenylenediamine by P25-TiO <sub>2</sub> during m-dinitrobenzene photoreduction                    | <i>Catalysis Communications</i> (2014), 25-28  | Kaur, J., Pal, B.                | 3.7                  |
| 14. | Superior photoactivity and stability of movable CdS (core)-CdO (shell) nanostructures formed in tubular SiO <sub>2</sub> by laser etching of SiO <sub>2</sub> @CdS nanorod | <i>Chemical Engineering Journal</i> (2014), 260-267  | Gupta, N., Pal, B.               | 4.01                 |
| 15. | Co-catalytic and electro-kinetic properties of Au nanostructures dispersed in solvents of varying dipole moments   | <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> (2014), 155-163                  | Kaur, R., Pal, B.                | 2.4                  |
| 16. | Sensitivity of the Multiple Functional Moieties of Amino Acids for the Self-Assembly of Au Nanoparticles on Different Physicochemical Properties                           | <i>Journal of Cluster Science</i> (2014), 1085-1098  | Monga, A., Pal, B.               | 1.14                 |
| 17. | Improved surface properties and catalytic activity of anisotropic shapes of photoetched Au nanostructures formed by variable energy laser exposure                         | <i>Journal of Molecular Catalysis A: Chemical</i> (2014), 7-15   | Kaur, R., Pal, B.                | 3.7                  |
| 18. | Cu nanostructures of various shapes and sizes as superior catalysts for nitro-aromatic reduction and co-catalyst for Cu/TiO <sub>2</sub> photocatalysis                    | <i>Applied Catalysis A: General</i> , (2014), 28-36  | Kaur, R., Pal, B.                | 3.65                 |
| 19. | Core-shell structure of metal loaded CdS-SiO <sub>2</sub> hybrid nanocomposites for complete photomineralization of methyl orange by visible light                         | <i>Journal of Molecular Catalysis A: Chemical</i> , (2014), 158-167                                      | Gupta, N., Pal, B.               | 3.7                  |
| 20. | Facile Synthesis of Anisotropic Au Nanostructures by Laser Irradiation and Study of Their Optical and Electrokinetic Properties  | <i>Particulate Science and Technology</i> , (2014),  | Pal, B., Kaur, R.                | 0.49                 |

|     | <b>Title of the paper</b>  | <b>Name of the Journal with volume, page nos., year</b>                          | <b>Name of the authors</b>                   | <b>Impact Factor</b> |
|-----|--|--|--|----------------------|
| 21. | Influence of Au Photodeposition and Doping in CdS Nanorods: Optical and Photocatalytic Study   | <i>Particulate Science and Technology</i> , (2014), 10.1080/02726351.2014.944634 | Singh, R., Pal, B.                           | 0.49                 |
| 22. | Co-catalysis effect of different morphological facets of as prepared Ag nanostructures for the photocatalytic oxidation reaction by Ag-TiO <sub>2</sub> aqueous slurry | <i>Materials Chemistry and Physics</i> (2013), 393-399                           | Kaur, R., Pal, B.                            | 2.15                 |
| 23. | Fabrication of hollow SiO <sub>2</sub> and Au (core)-SiO <sub>2</sub> (shell) nanostructures of different shapes by CdS template dissolution                           | <i>Journal of Sol-Gel Science and Technology</i> , (2013), 284-293               | Gupta, N., Badhwar, N., Pal, B.              | 1.64                 |
| 24. | Highly porous ZnS microspheres for superior photoactivity after Au and Pt deposition and thermal treatment   | <i>Materials Research Bulletin</i> , (2013), 4867-4871                           | Singla, S., Pal, B.                          | 2.2                  |
| 25. | Superior photoluminescence and photocatalytic activity of CdS (core)-SiO <sub>2</sub> (shell) nanostructures obtained by CdS photoetching and Au deposition            | <i>Journal of Nanoscience and Nanotechnology</i> (2013), 5069-5079               | Gupta, N., Pal, B.                           | 1.33                 |
| 26. | Selective photo-reduction of p-nitrophenol to p-aminophenol by Au deposited CdS nanostructures of different shapes having large surface area                           | <i>Journal of Nanoscience and Nanotechnology</i> (2013), 4917-4924               | Gupta, N., Pal, B.                           | 1.33                 |
| 27. | The preparation, surface structure, zeta potential, surface charge density and photocatalytic activity of TiO <sub>2</sub> nanostructures of different shapes          | <i>Applied Surface Science</i> (2013), 366-372                                   | Grover, I.S., Singh, S., Pal, B.             | 2.54                 |
| 28. | Highly enhanced photocatalytic activity of Au nanorod-CdS nanorod heterocomposites   | <i>Journal of Molecular Catalysis A: Chemical</i> (2013), 246-254                | Singh, R., Pal, B.                           | 3.7                  |
| 29. | Priority PAHs in orthodox black tea during manufacturing process   | <i>Environmental Monitoring and Assessment</i> (2013), 6291-6284                 | Grover, I.S., Singh, S., Pal, B.             | 1.55                 |
| 30. | Polycyclic aromatic hydrocarbons in some grounded coffee brands  | <i>Environmental Monitoring and Assessment</i> (2013), 6459                      | Grover, I.S., Sharma, R., Singh, S., Pal, B. | 1.55                 |
| 31. | Photocatalytic degradation of N-heterocyclic aromatics-effects of number and position of nitrogen atoms in the ring  | <i>Environmental Science and Pollution Research</i> (2013), 3956-3964            | Kaur, J., Pal, B.                            | 2.75                 |
| 32. | Photochemical fabrication of transition metal nanoparticles  | <i>International Journal of Nanoscience</i> (2013),                              | Badhwar, N., Gupta, N., Pal, B.              | 0.15                 |

|     | <b>Title of the paper</b>   | <b>Name of the Journal with volume, page nos., year</b>  | <b>Name of the authors</b>                            | <b>Impact Factor</b> |
|-----|---|--|---|----------------------|
|     | using cds template and their co-catalysis effects for tio2 photocatalysis   |  |   |                      |
| 33. | Fine-tuning the photoluminescence and photocatalytic properties of CdS nanorods of varying dimensions   | <i>Materials Research Bulletin</i> (2013), 1403-1410   | Singh, R., Pal, B.                                    | 2.2                  |
| 34. | Study of excited charge carrier's lifetime for the observed photoluminescence and photocatalytic activity of CdS nanostructures of different shapes | <i>Journal of Molecular Catalysis A: Chemical</i> (2013), 77-85                                    | Singh, R., Pal, B.                                    | 3.7                  |
| 35. | Photocatalytic activity of transition metal and metal ions impregnated TiO <sub>2</sub> nanostructures for iodide oxidation to iodine formation     | <i>Journal of Molecular Catalysis A: Chemical</i> , (2013), 48-55                                  | Gupta, N., Pal, B.                                    | 3.7                  |
| 36. | Enhanced photocatalytic activity of coinage metal-cadmium sulfide nanorod composites under sun light irradiation                                    | <i>Advanced Materials Research</i> (2013), 189-192   | Singh, R., Pal, B.                                    | --                   |
| 37. | Metal ion-TiO <sub>2</sub> nanocomposites for the selective photooxidation of benzene to phenol and cycloalkanol to cycloalkanone                   | <i>Journal of Experimental Nanoscience</i> (2013), 148-160   | Gupta, N., Bansal, P., Pal, B.                        | 1.15                 |
| 38. | Size and shape dependent attachments of Au nanostructures to TiO <sub>2</sub> for optimum reactivity of Au-TiO <sub>2</sub> photocatalysis          | <i>Journal of Molecular Catalysis A: Chemical</i> , (2012), 39-43                                  | Kaur, R., Pal, B.                                     | 3.7                  |
| 39. | The synthesis, structure, optical and photocatalytic properties of silica-coated cadmium sulfide nanocomposites of different shapes                 | <i>Journal of Colloid and Interface Science</i> , (2012), 250-256                                  | Gupta, N., Pal, B.                                    | 3.9                  |
| 40. | Rapid photokilling of gram-negative Escherichia coli bacteria by platinum dispersed titania nanocomposite films                                     | <i>Materials Chemistry and Physics</i> (2012), 21-27   | Pal, B., Singh, I., Angrish, K., Aminedi, R., Das, N. | 1.5                  |
| 41. | Superior photodecomposition of pyrene by metal ion-loaded TiO <sub>2</sub> catalyst under UV light irradiation                                      | <i>Environmental Science and Pollution Research</i> (2012), 250-256                                | Rani, M., Gupta, N., Pal, B.                          | 1.4                  |
| 42. | Sodium impregnated zinc oxide as a solid catalyst for biodiesel preparation from a variety of triglycerides   | <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , (2014), 1999-2008 | Ali, A., Khullar, P., Kumar, D.                       | 0.81                 |
| 43. | Potassium ion impregnated calcium oxide as a Nanocrystalline solid catalyst for Biodiesel production from waste cotton seed oil                     | <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , (2014), 1093-1102 | Kumar, D., Ali, A.                                    | 0.81                 |

|     | <b>Title of the paper</b>  | <b>Name of the Journal with volume, page nos., year</b>  | <b>Name of the authors</b>      | <b>Impact Factor</b> |
|-----|--|--|---------------------------------|----------------------|
| 44. | Ethanolysis of waste cottonseed oil over lithium impregnated calcium oxide: Kinetics and reusability studies   | <i>Renewable Energy</i> (2014), 272-279  | Kaur, M., Ali, A.               | 2.98                 |
| 45. | Kinetics and reusability of Zr/CaO as heterogeneous catalyst for the ethanolysis and methanolysis of <i>Jatropha crucas</i> oil  | <i>Fuel Processing Technology</i> , (2014), 173-184  | Kaur, N., Ali, A.               | 2.81                 |
| 46. | Potassium impregnated nanocrystalline mixed oxides of La and Mg as heterogeneous catalysts for transesterification   | <i>Renewable Energy</i> (2014), 226-233  | Mutreja, V., Singh, S., Ali, A. | 2.98                 |
| 47. | Lithium zirconate as solid catalyst for simultaneous esterification and transesterification of low quality triglycerides   | <i>Applied Catalysis A: General</i> (2014), 193-202  | Kaur, N., Ali, A.               | 2.5                  |
| 48. | Potassium fluoride impregnated CaO/NiO: An efficient heterogeneous catalyst for transesterification of waste cottonseed oil  | <i>European Journal of Lipid Science and Technology</i> (2014), 80-88                          | Kaur, M., Ali, A.               | 2.26                 |
| 49. | Removal of lead (II) from synthetic and batteries wastewater using agricultural residues in batch/column mode  | <i>International Journal of Environmental Science and Technology</i> , (2014), 1759-1770       | Singh, J., Ali, A., Prakash, V. | 1.80                 |
| 50. | Application of Acacia karroo charcoal for desalinating Ni(II) and Zn(II) from aqueous solutions through batch mode   | <i>Journal of Water Reuse and Desalination</i> , (2013), 268-276                               | Singh, J., Sharma, R., Ali, A.  | 1.02                 |
| 51. | Transesterification of low-quality triglycerides over a Zn/ CaO heterogeneous catalyst: Kinetics and reusability studies   | <i>Energy and Fuels</i> , (2013), 3758-3768  | Kumar, D., Ali, A.              | 2.72                 |
| 52. | Removal of Ni <sup>2+</sup> , Cu <sup>2+</sup> and Zn <sup>2+</sup> using different agricultural residues: Kinetics, isotherm modeling and mechanism via chemical blocking | <i>Asian Journal of Chemistry</i> , (2013), 6377-6386  | Singh, J., Ali, A., Kumar, R.   | 1.5                  |
| 53. | Lithium ions-supported magnesium oxide as nano-sized solid catalyst for biodiesel preparation from mutton fat  | <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> (2013), 184-192 | Kaur, N., Ali, A.               | 0.81                 |
| 54. | Effect of metal ions on the hydrolytic and transesterification activities of <i>Candida rugosa</i> Lipase  | <i>Journal of Oleo Science</i> , (2013), 919-924   | Katiyar, M., Ali, A.            | 1.20                 |
| 55. | Sodium aluminate as catalyst for transesterification of waste mutton fat   | <i>Journal of Oleo Science</i> (2012), 665-669   | Mutreja, V., Singh, S., Ali, A. | 1.20                 |
| 56. | Immobilization of <i>Candida rugosa</i> lipase on MCM-41 for the   | <i>Journal of Oleo Science</i> , (2012), 469-475   | Katiyar, M., Ali, A.            | 1.20                 |

|     | Title of the paper  | Name of the Journal with volume, page nos., year                     | Name of the authors  | Impact Factor |
|-----|---|--|--|---------------|
|     | transesterification of cotton seed  |  |  |               |
| 57. | Nanocrystalline K-CaO for the transesterification of a variety of feedstocks: Structure, kinetics and catalytic properties                          | <i>Biomass and Bioenergy</i> , (2012), 459-468                       | Kumar, D., Ali, A.   | --            |
| 58. | Kinetics, thermodynamics and breakthrough studies of biosorption of Cr (VI) using arachis hypogea shell powder                                      | <i>Research Journal of Chemistry and Environment</i> , (2012), 69-79 | Singh, J., Ali, A.   | --            |
| 59. | Lithium ion impregnated calcium oxide as nano catalyst for the biodiesel production from karanja and jatropha oils                                  | <i>Renewable Energy</i> (2011), 2866-2871                            | Kaur, M., Ali, A.  | 2.98          |
| 60. | Biodiesel from mutton fat using KOH impregnated MgO as heterogeneous catalysts  | <i>Renewable Energy</i> , (2011), 2553-2258                          | Mutreja, V., Singh, S., Ali, A.  | 2.98          |
| 61. | Emulsification and hydrolysis of oil by syncephalastrum racemosum   | <i>Defence Science Journal</i> , (2010), 251-254                     | Mathur, C., Prakash, R., Ali, A., Kaur, J., Cameotra, S.S., Prakash, T.N.          | --            |
| 62. | Nanocrystalline lithium ion impregnated calcium oxide as heterogeneous catalyst for transesterification of high moisture containing cotton seed oil | <i>Energy and Fuels</i> , (2010), 2091-2097                          | Kumar, D., Ali, A.   | 2.72          |
| 63. | Voltammetry of nanoparticle-coupled imine linkage-based receptors for sensing of Al(III) and Co(II) ions  | <i>Journal of Applied Electrochemistry</i> , (2014), 1239-1251       | Mittal, S.K., Sharma, R., Sharma, M., Singh, N., Singh, J., Kaur, N., Chhibber, M. | --            |
| 64. | Effect of combustion variables on PAHs emission from incineration of cellulose waste filters from acrylic industry                                  | <i>Environmental Monitoring and Assessment</i> , (2010), 591-598     | Prakash, V., Singh, S.   | --            |
| 65. | "Influence of drying of biosludge on organochlorine compounds from pulp and paper industry"   | <i>J. Environ Bio .</i> , 33 (2012) 85- 88.                          | S. Gupta, M. Purwar, S.K. Chakrabarti and Satnam Singh ,                           | 1.2           |
| 66. | "PAHs in some brands of tea"  | <i>Environ Monit Assess.</i> , 177 (2011) 35-38.                     | Satnam Singh , Amit Vashishth, Vishal,   | 1.2           |
| 67. | "Effect of Varying Load of Organochlorine Compounds on Activated Sludge Processes"  | <i>IPPTA J.</i> , 23 (2011) 175-179.                                 | Gupta, S.K. Chakrabarti, Singh Satnam and R. Varadhan,                             | 1.5           |
| 68. | "Effect of ozonation on waste activated sludge of Pulp and Paper industry"  | <i>Water Sci. Technol.</i> , 62 (2010) 1676-81.                      | S. Gupta, S.K. Chakrabarti, Satnam Singh ,   | 1.5           |
| 69. | "Effect of combustion variables on PAHs emission from incineration of cellulose waste filters from Acrylic industry"                                | <i>Environ Monit Assess</i> 163 (2010) 591-598.                      | Vinit Prakash, Satnam Singh  | --            |

|     | <b>Title of the paper</b>   | <b>Name of the Journal with volume, page nos., year</b>                | <b>Name of the authors</b>  | <b>Impact Factor</b> |
|-----|---|--|---|----------------------|
| 70. | Selenium uptake and associated anti-oxidant properties in <i>Pleurotus fossulatus</i> cultivated on wheat straw from seleniferous fields                          | <i>Acta Alimentaria</i> , (2014), 280-287                              | Bhatia, P., Bansal, C., Prakash, R., Nagaraja, T.P.   | --                   |
| 71. | Selenium bioaccessibility and speciation in biofortified <i>Pleurotus</i> mushrooms grown on selenium-rich agricultural residues                                  | <i>Food Chemistry</i> , (2013), 225-230                                | Bhatia, P., Aureli, F., D'Amato, M., Prakash, R., Cameotra, S.S., Nagaraja, T.P., Cubadda, F. | --                   |
| 72. | New proton nuclear magnetic resonance-based derivation for quantification of alkyl esters generated using biocatalysis  | <i>Energy and Fuels</i> , (2013), 2660-2664                            | Sharma, A., Verma, A., Luxami, V., Melo, J.S., D'Souza, S.F., Prakash, N.T., Prakash, R.      | 2.72                 |
| 73. | Transesterification of triglycerides by dried biomass of <i>Aspergillus</i> sp  | <i>Journal of Oleo Science</i> , (2013), 297-303                       | Aulakh, S.S., Prakash, N.T., Prakash, R.  | 1.2                  |
| 74. | Selenium uptake by edible oyster mushrooms ( <i>Pleurotus</i> sp.) from selenium-hyperaccumulated wheat straw   | <i>Journal of Nutritional Science and Vitaminology</i> , (2013), 69-72 | Bhatia, P., Prakash, R., Prakash, N.T.  | 1.5                  |
| 75. | Selenium content in seed, oil and oil cake of <i>Se</i> hyperaccumulated <i>Brassica juncea</i> (Indian mustard) cultivated in a seleniferous region of India     | <i>Food Chemistry</i> , (2012), 401-404                                | Jaiswal, S.K., Prakash, R., Acharya, R., Reddy, A.V.R., Tejo Prakash, N.                      | --                   |
| 76. | Bioaccessibility of selenium from <i>Se</i> -rich food grains of the seleniferous region of Punjab, India as analyzed by instrumental neutron activation analysis | <i>CYTA - Journal of Food</i> , (2012), 160-164                        | Jaiswal, S.K., Prakash, R., Acharya, R., Nathaniel, T.N., Reddy, A.V.R., Tejo Prakash, N.     |                      |
| 77. | Whole cell catalyzed esterification of fatty acids to biodiesel using <i>Aspergillus</i> sp.  | <i>Biocatalysis and Biotransformation</i> , (2011), 354-358            | Aulakh, S.S., Chhibber, M., Mantri, R., Prakash,  | 1.1                  |
| 78. | Transesterification of used edible and non-edible oils to alkyl esters by <i>Aspergillus</i> sp. as a whole cell catalyst   | <i>Journal of Basic Microbiology</i> , (2011), 607-613                 | Prakash, R., Aulakh, S.S.   | 1.5                  |
| 79. | Effect of frying time on free fatty acid generation and esterification rate in <i>Aspergillus</i> sp.-catalyzed transesterification of cottonseed oil             | <i>Biocatalysis and Biotransformation</i> , (2010), 403-407            | Prakash, R., Aulakh, S.S., Kalra, R.  | --                   |
| 80. | Selenium fortification and pro/anti oxidant responses in <i>Allium cepa</i> (onion) cultivated in <i>Se</i> supplemented soils                                    | <i>Experimental Agriculture</i> , (2010), 531-540                      | Prakash, N.T., Sharma, N., Prakash, R., Nathaniel, T.N., Acharya, R., Reddy, A.V.R.           | --                   |



|     | Title of the paper  | Name of the Journal with volume, page nos., year                                | Name of the authors   | Impact Factor |
|-----|---|---|---|---------------|
| 81. | Removal of selenium from se enriched natural soils by a consortium of Bacillus isolates   | <i>Bulletin of Environmental Contamination and Toxicology</i> , (2010), 214-218 | Prakash, N.T., Sharma, N., Prakash, R., Acharya, R.   | --            |
| 82. | Emulsification and hydrolysis of oil by syncephalastrum racemosum   | <i>Defence Science Journal</i> , , (2010), 251-254                              | Mathur, C., Prakash, R., Ali, A., Kaur, J., Cameotra, S.S., Prakash, T.N.                                     | --            |
| 83. | Lipase catalyzed transesterification of cottonseed oil  | <i>Journal of Pure and Applied Microbiology</i> , (2010), 367-372               | Singh, S., Aggrawal, S., Chhibber, M., Prakash, R.  | --            |
| 84. | Optimization of medium and process parameters for the production of lipase from an oil-tolerant <i>Aspergillus</i> sp. (RBD-01)                       | <i>Journal of Basic Microbiology</i> , (2010), 37-42                            | Aulakh, S.S., Prakash, R.   | --            |
| 85. | Selenium mobilization by <i>Pseudomonas aeruginosa</i> (SNT-SG1) isolated from seleniferous soils from India  | <i>Geomicrobiology Journal</i> , , (2010), 35-42                                | Gupta, S., Prakash, R., Prakash, N.T., Pearce, C., Patrick, R., Hery, M., Lloyd, J.                           | --            |
| 86. | Aerobic microbial manufacture of nanoscale selenium: Exploiting nature's bio-nanomineralization potential   | <i>Biotechnology Letters</i> , , (2009), 1857-1862                              | Prakash, N.T., Sharma, N., Prakash, R., Raina, K.K., Fellowes, J., Pearce, C.I., Lloyd, J.R., Patrick, R.A.D. | --            |
| 87. | Profile of selenium in soil and crops in seleniferous area of Punjab, India by neutron activation analysis  | <i>Journal of Radioanalytical and Nuclear Chemistry</i> , (2009), 59-62         | Sharma, N., Prakash, R., Srivastava, A., Sadana, U.S., Acharya, R., Prakash, N.T., Reddy, A.V.R.              | --            |
| 88. | Dansyl-antipyrine dyad as fluorescent sensor for Cu <sup>2+</sup> and F <sup>-</sup> : Sequential XNOR logic operation                                | New J. Chem., 2015, in press  | Vijay Luxami, Akul Sen Gupta and Kamaldeep Paul,  | 3.5           |
| 89. | Benzimidazole-Biologically Attractive Scaffold for Protein Kinase Inhibitors,   | <i>RSC Adv.</i> , (2015), in press  | Prinka Singla, Vijay Luxami and Kamal Deep Paul,  | 3.7           |
| 90. | Palladium catalyzed novel monoarylation and symmetrical/unsymmetrical diarylation of imidazo[1,2 a]pyrazines and their in vitro anticancer activities | <i>RSC Adv.</i> , (2014), 4, 9885-9892  | Richa Goel, Vijay Luxami and Kamaldeep Paul,  | 3.7           |
| 91. | Synthesis and in vitro antitumor evaluation of primary amine substituted quinazoline linked benzimidazole   | <i>Bioorg. Med. Chem.Lett.</i> , (2014), 24, 624-629.                           | Kamaldeep Paul, Alka Sharma, Vijay Luxami,  | 2.6           |
| 92. | Synthesis, in vitro evaluation and molecular modelling of naphthalimide analogue as anticancer agents.  | <i>Eur. J. Med. Chem.</i> (2013), 68, 352-360.                                  | Meenakshi Verma, Vijay Luxami, Kamaldeep Paul.  | 2.5           |

|      | Title of the paper  | Name of the Journal with volume, page nos., year               | Name of the authors   | Impact Factor |
|------|---|--|---|---------------|
| 93.  | A dual-responsive chromo-fluorescent probe for detection of Zn <sup>2+</sup> and Fe <sup>3+</sup> via two different approaches                        | RSC Adv., 2013, 3, 9189.                                       | Vijay Luxami, Renukamal, Kamaldeep Paul and Subodh Kumar  | 2.7           |
| 94.  | Synthesis, single crystal and antitumor activities of benzimidazole-quinazoline hybrids   | <i>Bioorganic and Med. Chem. Lett.</i> , (2013), 23, 3288.     | Alka Sharma, Vijay Luxami and Kamaldeep Paul,   | 2.4           |
| 95.  | Pyrophosphate selective fluorescent probe and molecular flip flop.  | <i>Dalton Trans.</i> (2013), 42, 3783                          | Vijay Luxami*, Kamaldeep Paul and In Howa Jeong   | 2.1           |
| 96.  | Synthesis of new conjugated coumarin-benzimidazole hybrids and their anticancer activity.   | <i>Bioorganic &amp; Med. Chem. Lett.</i> (2013), 23, 3667.     | Kamaldeep Paul, Shweta Bindal and Vijay Luxami,   | 2.5           |
| 97.  | FRET-based ratiometric detection of Hg <sup>2+</sup> and biothiols using naphthalimide-rhodamine dyads.   | <i>Org. Biomol. Chem.</i> , (2012), 10, 8076.                  | Vijay Luxami, Meenakshi Verma, Richa Rani, Kamaldeep Paul and Subodh Kumar                                | 2.5           |
| 98.  | ESIPT based dual fluorescent sensor and concentration dependent reconfigurable boolean operators.   | <i>RSC Adv.</i> , 2012, 2, 8734                                | Vijay Luxami and Subodh Kumar   | 2.7           |
| 99.  | A differential ICT based molecular probe for multi-ions and multifunction logic circuits.   | <i>Dalton Trans.</i> 2012, 41, 4588                            | Vijay Luxami and Subodh Kumar,  | 2.2           |
| 100. | Chemodosimeters : An approach for estimation of biologically relevant metal ions and anions   | <i>Coord. Chem. Rev.</i> 2012, 256, 1992.                      | Kuljit Kaur, Rajnish Saini, Ashwani Kumar, Vijay Luxami, Navneet Kaur, Prabhpreet Singh and Subodh Kumar, | 2.5           |
| 101. | "Factor defining the effects of glycine betaine on the thermodynamic stability and internal dynamics of horse cytochrome c",                          | <i>Biochemistry (ACS)</i> , 53(32) (2014) 5221-5235.           | Rishu Jain, Deepak Sharma, Sandeep Kumar, Rajesh Kumar.   | 3.2           |
| 102. | "Electrostatic effects controls the stability and iron release kinetics of ovotransferrin",   | <i>J. Biol. Inorg. Chem.</i> , 19(6) (2014) 1009-1024.         | Sandeep Kumar, Deepak Sharma, Rajesh Kumar, Rajesh Kumar.   | 3.2           |
| 103. | "Effect of urea and alkylureas on the stability and structural fluctuation of the M80-containing $\beta$ -loop of horse cytochrome c", mvt059 341-354 | <i>Biochimica et Biophysica Acta</i> , 1844(3) (2014) 641-655. | Sandeep Kumar, Deepak Sharma, Rajesh Kumar.   | 3.75          |
| 104. | "Guanidine hydrochloride-induced alkali-molten globule model of horse ferrocycytochrome c",   | <i>Journal of Biochemistry</i> , 153(2) (2013) 161-177.        | Rishu Jain, Sandeep Kaur, Rajesh Kumar.   |               |
| 105. | . "Effects of Alcohols on the   | <i>Journal of Biochemistry</i> ,                               | Rishu Jain, Deepak  | 3.1           |

|      | Title of the paper  | Name of the Journal with volume, page nos., year           | Name of the authors  | Impact Factor |
|------|---|--|--|---------------|
|      | Stability and Low-Frequency Local Motions that Control the Slow Changes in Structural Dynamics of Ferrocycochrome c",   | 154 (4) 059 (2013) 341-354.                                | Sharma, Rajesh Kumar   |               |
| 106. | "Viscosity-Dependent Structural Fluctuation of the M80-Containing O-Loop of Horse Ferrocycochrome c",   | Chemical Physics, 418 (2013) 57-64.                        | Rajesh Kumar. Rishu Jain, Rajesh Kumar.  | 2.8           |
| 107. | Location and conformation of pantothenate and its derivatives in Mycobacterium tuberculosis pantothenate kinase: insights into enzyme action,   | Acta Crystallographica Section D, (2011), D67, 774-783.    | BhaskarChetnani, Parimal Kumar, K. V. Abhinav, ManmohanChhibber, A. Surolia, and M. Vijayan; | 1.5           |
| 108. | "Biodiesel production via ethanolysis of jatropha oil using molybdenum impregnated calcium oxide as solid catalyst"   | RSC Advances, 2015, 5, 13285                               | Navjot Kaur and Amjad Ali  | 3.7           |
| 109. | Lithium zirconate as solid catalyst for simultaneous esterification and transesterification of low quality triglycerides,   | Applied catalysis A:General, 2015, 289, 193-202            | Navjot Kaur and Amjad Ali,   | 3.7           |
| 110. | BOD exertion and OD600 measurements in presence of heavy metal ions using microbes from dairy wastewater as a seed  | Journal of Water Resources and Protection, 2(2010)478-488  | SK Mittal and S Goel,  | 1.18          |
| 111. | Impact of seasonal variation on ambient air of an industrial town of Punjab (India)   | J Environmental Science & Engineering (USA) 2010           | Susheel K Mittal, N Singh and KruneshGarg  | --            |
| 112. | Effects of air pollution on respiratory parameters during the wheat-residue burning in Patiala,   | Journal of Medical Engineering & Technology, 34(2010)23-28 | R Agarwal, A Awasthi, SK Mittal, N Singh, PK Gupta,  | 0.527         |
| 113. | Characterization Of Atmospheric Aerosols For Organic Tarry Matter And Combustible Matter During Crop Residue Burning And Non-Crop Residue Burning Months In Northwestern Region Of India. | Atmospheric Environment, 44(2010)1292-1300.                | N Singh, R Agarwal, A Awasthi, PK Gupta, SK Mittal,  | 3.465         |
| 114. | Impact Assessment of Rice Crop Residue Burning on Levels of SPM, SO2 and NO2 in ambient air of Patiala city in India, Int   | Journal of Env Anal Chemistry, 90(2010)829-843.            | NSingh, S K Mittal, RAgarwal, AAwasthi&PK Gupta,   | 1.162         |
| 115. | Effects of agriculture crop residue burning on children and young on PFTs in North West India   | Sci. of The Total Environment, 408(2010) 4440-4445.        | A Awasthi, N Singh, S Mittal, PK. Gupta and R Agarwal,                                       | 3.286         |
| 116. | Potentiometric determination of dysprosium(III) ion using   | J of Anal Chem, 65(2010)1045-1051.                         | SK Mittal, R Kumar, P. Dogra, HK   | 0.747         |

|      | <b>Title of the paper</b>   | <b>Name of the Journal with volume, page nos., year</b>       | <b>Name of the authors</b>                                 | <b>Impact Factor</b> |
|------|---|---|--|----------------------|
|      | zirconium(IV) antimonomolybdate as an electroactive material  |   | Sharma   |                      |
| 117. | A Comparative Study of Linked 2, 2'-Dipyridylamine Ligand System as an Ion Selective Electrode for Ag (I) Ions,   | <i>Int. J. Electrochem. Sci.</i> , 5 (2010) 1984 – 1995       | SK Mittal, PKumar, A Kumar SK LF Lindoy,                   | 3.729                |
| 118. | Cerium(III)-Selective Membrane Electrode Based on Dibenzo-24-crown-8 as a Neutral Carrier   | <i>E-Journal of Chemistry</i> , 7(2010) 849-855.              | SK Mittal, Ashok Kumar S.K and HK Sharm                    | 0.516                |
| 119. | Highly Selective Potentiometric Determination of Ag(I) using 1,2,4,5-tetrakis (8-hydroxyquinolinoxy methyl) benzene Based Coated-wire Ion-selective Electrode | <i>Sensor Letters</i> , 9(2011)1390-1397                      | S.K. Ashok Kumar, SK Mittal, S Kumar                       | 0.819                |
| 120. | Study of size and mass distribution of particulate matter due to crop residue burning with seasonal variation in rural area of Punjab, India,                 | <i>Journal of Environmental Monitoring</i> 13(2011) 1073-1081 | A Awasthi R Agarwal, SK Mittal, N Singh, K Singh, PK Gupta | 1.81                 |
| 121. | Systematic Approach for the Determination of Individual Lanthanides using Inexpensive Conductometric Technique  | <i>Analytical Methods</i> ,3(2011)1290-1295.                  | K Matharu, SK Mittal, A Kumar, SK,                         | 1.036                |
| 122. | Modeling impact of solar radiation on site selection for solar PV Power Plants in India   | <i>International Journal of Green Energy</i> , 8(2011)486-498 | A Jain, R Mehta, SK Mittal,                                | 1.19                 |
| 123. | Chlorella sp. Based biosensor for selective determination of mercury in presence of silver ions   | <i>Sensors and Actuators B</i> , 165(2012)48-52               | J.Singh, SK Mittal   | 3.9                  |
| 124. | Whole cell based amperometric sensor with relative selectivity for zinc ions,   | <i>Analytical Methods</i> , 4(2012)1326-1331.                 | J.Singh, SK Mittal   | 1.03                 |
| 125. | Chlorella Modified Glassy Carbon Electrode as Whole Cell Microbial Sensor for Heavy Metal Ions.   | <i>Current Analytical Chemistry</i> 8(2012)365-372            | SK Mittal, J Singh, Ashok Kumar SK                         | 1.0                  |
| 126. | Assessment of total coliform removal and leaching of metal ions from sewage sludge-fly ash mixture at different pH and washing conditions                     | <i>African Journal of Biotechnology</i> , 11(2012)9612-9618.  | M.Kharub, A Rajor, SK Mittal                               | 0.57                 |
| 127. | Neutral Carrier-Based Zinc-Selective Electrode,   | <i>Sensor Letters</i> , 10(2012)979-984.                      | Pawan Kumar, Ashok Kumar SK, Susheel K Mittal,             | 0.81                 |
| 128. | Anthrone derivatives as voltammetric sensors for applications in metal ion detection  | <i>Sensor Letters</i> , 11(2) 223-236(2012)                   | SK Mittal, K Kaur, Ashok Kumar SK, S Kumar, A Kumar,       | 0.819                |

|      | Title of the paper   | Name of the Journal with volume, page nos., year   | Name of the authors  | Impact Factor |
|------|--|--|--|---------------|
| 129. | Effects of exposure to rice-crop residue burning smoke on pulmonary functions and oxygen saturation level of human beings in Patiala (India),              | <i>Science of the total Environment</i> , 429(2012)161-166.  | R Agarwal, A Awasthi, N Singh, PK Gupta and SK. Mittal,                                | 3.286         |
| 130. | Fly ash-Sewage Sludge Mixture as a barrier of heavy metal leaching Research  | J of Chemistry and Environment, 16(2012)22-26.   | M.Kharub, A Rajor, S.K Mittal,   | 0.379         |
| 131. | Trace Level Detection of Nickel Ions in Chocolate Samples Using Noval N4 Macrocyclic Based Potentiometric Sensor   | <i>Advanced Science, Engineering and Medicine</i> 5(2013)1-6.  | N R Gupta, S K Mittal and S K Sonkar,  | --            |
| 132. | Optimising the Cost and Performance of Parabolic Trough Solar Plants with Thermal Energy Storage in India,   | <i>Environmental Progress &amp; Sustainable Energy (Wiley)</i> (DOI: 10.1002/ep.11660) IF:1.649            | A Jain, Tuyet Vu, R Mehta, S K Mittal  |               |
| 133. | Epidemiological study of healthy people to investigate the effects of agriculture crop residue burning on their PFTS in Patiala (India)                    | International Journal of Environmental Health Research (Taylor & Francis) DOI:10.1080/09603123.2012.733933 | RAgarwal, A Awasthi, N Singh, PK Gupta, S K Mittal,                                    | 0.84          |
| 134. | Conductometric Performance of 2-pole and 5-ring conductivity cell probe for lanthanides determination using EDTA and DCTA as potential sequestering agent, | <i>Industrial &amp; Engineering Chemistry Research (ACS)</i> , 51(2012)11328-11334.                        | Komal Matharu, Susheel K Mittal and Ashok Kumar SK,                                    | 2.127         |
| 135. | Thermal and electrical behavior of silver chloride/polyaniline nanocomposite synthesized in aqueous medium using hydrogen peroxide                         | <i>J Mater Sci: Mater Electron</i> DOI 10.1007/s10854-012-0933-0 IF: 1.076                                 | Sujata Vohra, Manish Kumar, Susheel K. Mittal, M. L. Singla                            |               |
| 136. | Optimization studies for hybrid and storage designs for parabolic solar trough systems with the system advisor model                                       | <i>Environmental Progress and Sustainable Energy</i> , DOI: 10.1002/ep.11719                               | Amit Jain, P.N.B.V. Chalapathi Rao, Poulami Choudhury, Rajeev Mehta, Susheel K. Mittal | 1.649         |
| 137. | Improvised response in 1,4 Dioxane as co-solvent during selective determination of lanthanides in binary mixtures by conductometry                         | <i>Current Analytical Chemistry (In Press)</i>   | Komal Matharu Ashok Kumar SK and Susheel K Mittal,                                     | 1.0           |
| 138. | Heterogeneously catalyzed selective esterification of benzoic acid using zirconium based ion exchangers, Science   | Journal of Pure and Applied Chemistry (In Press)   | C. Singh, SK Mittal, N. Kaur,  | --            |
| 139. | Electron spin resonance, nuclear quadrupole resonance, reflectance and magnetic  | <i>International Journal of Current Research and Review</i> , 4(22)(2012)12-                               | Harminder Singh, A.K. Bhardwaj, M.L. Sehgal and  | --            |

|      | <b>Title of the paper</b>  | <b>Name of the Journal with volume, page nos., year</b>                                 | <b>Name of the authors</b>   | <b>Impact Factor</b> |
|------|--|---|--|----------------------|
|      | parameters of cobalt (ii) and nickel (ii) complexes using density functional theory,   | 28.   | Susheel K Mittal   |                      |
| 140. | Thermal stability and electrical characteristics of poly(2-ethyleaniline)-Au nanocomposite,  | <i>J Mater Sci: Mater Electron</i> , DOI 10.1007/s10854-013-1156-8                      | Sujata Vohra, Narinder Singh, Susheel K. Mittal, M. L. Singla,   | 1.97                 |
| 141. | Correlation of Electron Spin Resonance, Nuclear Quadrupole Resonance, reflectance and magnetic parameters of transition metal complexes by DFT calculations:   | part-i: Titanium (II,III), Vanadium (II,III)  | Harminder Singh, A.K. Bhardwaj, M.L. Sehgal and Susheel K Mittal   | --                   |
| 142. | Calculating ESR Parameters ( $H^{\Delta E}$ & $F$ ) Of 4d And 5d transition metal ion complexes: A DFT Study   | <i>International Journal of Current Research and Review</i> , 5(5)(2013)71-88.          | Harminder Singh, A.K. Bhardwaj, M.L. Sehgal and Susheel K Mittal   | 1.136                |
| 143. | Disposable Screen Printed Electrode for Mercury Ions   | <i>Int. J. Electrochem. Sci.</i> , 8(2013)  | Karamjeet Kaur, Susheel K Mittal, Ashok Kumar SK, Ashwani Kumar, Subodh Kumar, Jonathan P. Metters and Craig E Banks | 1.956                |
| 144. | Viologen Substituted Anthrone Derivatives for Selective Detection of Cyanide Ions Using Voltammetry  | <i>Anal. Methods</i> , 5(2013), 5565-5571   | Karamjeet Kaur, Susheel K Mittal, Ashok Kumar SK, Ashwani Kumar and Subodh Kumar                                     | 1.547                |
| 145. | Sewage sludge as Green Manure Supplement in Agriculture  | <i>Journal of Applied Ecology and Environmental Research (Accepted)</i> .               | Monika Kharub, Anita Rajor, Susheel K Mittal,  | 0.59                 |
| 146. | Immobilization of $N^I, N^{II}, N^{III}$ tris(2-pyridyl oxymethyl) ethane as a neutral carrier in a PVC-membrane medium for lead(II) ion-selective electrodes, | <i>J. Chem. Sci. (Springer)</i> , 126(2014)33-40.                                       | Pawan Kumar, Ashok Kumar SK, Susheel K Mittal,   | 1.224                |
| 147. | Statistical model to quantify the effect of pollution loading due to field crop residue burning on the PFTs of healthy subjects                                | <i>Journal of Metrology Society of India</i> DOI: 10.1007/s12647-013-0070-0 (Springer). | Amit Awasthi, Ravinder Agarwal, Susheel K Mittal, Nirankar Singh and Prabhat K Gupta                                 | 0.28                 |
| 148. | Potassium as a Marker in Air Particulate Matter After Crop Residue Burning Events in Patiala, India  | <i>Chitkara Chemistry Review</i> 09/2013; 1(2):47-58.                                   | Nirankar Singh, Susheel Mittal, Rishipal Singh, Amit Awasthi, Ravinder Agarwal, Prabhat K Gupta                      | --                   |
| 149. | Polymer-Based Biocompatible Fluorescent Sensor for Nanomolar Detection of $Zn^{2+}$ in   | <i>Inorg. Chem. Front. (RSC)</i> , 2014, 1, 99-108.                                     | Kamalpreet Kaur, Manjot Kaur, Amanpreet Kaur,  | --                   |

|      | Title of the paper   | Name of the Journal with volume, page nos., year                           | Name of the authors   | Impact Factor |
|------|--|--|---|---------------|
|      | Aqueous Medium and Biological Samples  |  | JasminderSingh, NarinderSingh, Susheel K. Mittal, NavneetKaur   |               |
| 150. | Electrochemical Studies on Zirconium Phosphoborate Based Heterogeneous Membranes   | J. Electrochem. Sci. Eng. 4(2) (2014) 55-65                                | SandeepKaushal, Pritpal Singh and Susheel K Mittal  | 1.956         |
| 151. | A Yttrium(III) selective electrode based on zirconium(IV) phosphoborates   | Journal of New Materials for Electrochemical Systems 17, 5-8 (2014)        | SandeepKaushal, Pritpal Singh and Susheel K Mittal,   | 0.53          |
| 152. | A new assembly for biosensing ultra-trace levels of mercury in a continuous flow system  | Anal. Methods, 2014,6, 5741-5745.  | Jasminder Singh and Susheel K. Mittal   | 1.547         |
| 153. | Voltammetry of nanoparticle coupled imine linkage based receptors for sensing of Al(III) and Co(II) ions,  | J Applied Electrochemistry (Springer), DOI: DOI: 10.1007/s10800-014-0746-3 | Susheel K Mittal, Rashmi Sharma, Manisha Sharma, Narinder Singh, Jasminder Singh, Navneet Kaur and Manmohan Chhibber, | 2.147         |
| 154. | NMR (13C, 17O) and IR/Raman Studies of Bi-nuclear Carbonyls: A DFT Application   | International Journal of Pure and Applied Chemistry, 8(2013) (In Press).   | ML Sehgal, S Sharma and SK Mittal   | --            |
| 155. | Improvised Response in 1,4 Dioxane as Co-solvent During Selective Determination of Cerium (III) in Binary Mixtures by Conductometry  | Current Analytical Chemistry, 10(4), 2014, 505-511(7)                      | Komal Matharu, Ashok Kumar SK, and Susheel K Mittal   | 2.35          |
| 156. | N, N, N-tris(2-pyridyloxymethyl) ethane as ionophore in potentiometric sensor for Pb(II) ions  | Journal of Chemical Sciences, 123(1), 2014, 33-40.                         | PawanKumar, Ashok KumarSK, SusheelK Mittal  | 1.22          |
| 157. | Diphenylether based derivatives as Fe (III) chemosensors: Spectrofluorimetry, Electrochemical and Theoretical studies  | RSC Advances, 5, (2015) 21831-21842  | Rashmi Sharma, Manmohan Chhibber, Susheel K Mittal  | 3.7           |
| 158. | Y(OTf) <sub>3</sub> catalyzed substitution dependent oxidative C(sp <sup>3</sup> )-C(sp <sup>3</sup> ) cleavage and regioselective dehydration of β-allyl-β-hydroxydithioesters: alternate route to α,β-unsaturated ketones and functionalized dienes. | Tetrahedron 2013, 69, 8899-8903  | S. Chowdhury, T. Chanda, G. C. Nandi, S. Koley, B. Janaki Ramulu, S. K. Pandey, M. S. Singh                           | 2.8           |
| 159. | An Enantioselective Approach to Functionalized Amino Acids: Total Synthesis of Antiepileptic Drug (R)-Lacosamide.  | J. Org. Chem. 2015 80 (8), 4201-4203                                       | Yuvraj Garg and Satyendra Kumar Pandey  | 4.6           |

|             | <b>Title of the paper</b>   | <b>Name of the Journal with volume, page nos., year</b> | <b>Name of the authors</b>                                 | <b>Impact Factor</b> |
|-------------|---|---|--|----------------------|
| <b>160.</b> | Enantioselective total synthesis of (+)-serinolamide A  | <i>RSC Adv.</i> 2015 DOI: 10.1021/acs.joc.5b00480       | Suraksha Gahalawat and Satyendra Kumar Pandey              | 3.7                  |
| <b>161.</b> | An enantioselective approach to 2-alkyl substituted tetrahydroquinolines: total synthesis of (+)-angustureine | <i>RSC Adv.</i> 2015,5, 38846-38850                     | Yuvraj Garg, Suraksha Gahalawat and Satyendra Kumar Pandey | 3.7                  |