

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	Thermo-economic analysis of a biomass-fired bubbling fluidized bed thermal plant	International Journal of Exergy, Vol 21, 1, pp 1-20,	Sharma, R. K., Mohapatra, S. K.	0.879
2	Power generation using cotton stalk derived producer gas in diesel engines	Energy Sources, Part A: Recovery, utilization, and environmental effects, 38, 19, 2816-2822, October 2016	Malik, A., Mohapatra, S. K.,	0.358
3	An assessment of physical, mineral, and rheological properties of fly ash for stowing in coal mines	Energy Sources, Part A: Recovery, utilization, and environmental effects, 38, 20, 2955-62	Kumar S., Singh, G., Mohapatra, S. K	0.358
4	Production of producer gas from sugarcane bagasse and carpentry waste and its sustainable use in a dual fuel CI engine: A performance, emission and noise investigation	Journal of the Exergy Institute, http://dx.doi.org/10.1016/j.joei.2016.11.002	Singh, H., Mohapatra, S. K	1.05
5	Comprehensive Characterization of Grounded Bottom Ash from Indian Thermal Power Plant	Journal of Residuals Science & Technology, 14, 1, 1-10, 2017	Singh. G , Kumar S, Mohapatra, S. K and Kumar K	0.53
6	Tribological analysis of WC-10Co-4Cr and Ni-20 Cr2O3 coating on stainless steel 304	Wear, http://dx.doi.org/10.1016/j.wear.2017.01.032	Singh, J, Kumar, S, Mohapatra, S. K	2.323
7	Properties of glass fibre hybrid composites: A Review	Polymer Plastics Technology and Engineering, Vol 56, No 5, pp 455-469,	Singh, J., Kumar, M., Kumar S., Mohapatra, S. K	1.51
8	The effect of compression ratio on the performance and emission characteristics of a dual fuel	Applied Thermal Engineering, doi: http://dx.doi.org/10.1016/j.applthermaleng.20	Lal S., Mohapatra, S. K.,	2.739

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	diesel engine using biomass derived producer gas	17.03.038		
9	Numerical optimization and thermal loss analysis of improved solar parabolic trough collector receiver system with one sided thermal insulation	Solar Energy, 148 (2017) pp 36-48	Chandra, Y.P., Singh, A., Mohapatra, S. K., Kesari, J. P., rana, L	3.685
10	Leaching characteristics of heavy metal in bottom ash from Indian thermal power plant,	Journal of Scientific and Industrial Research, vol 76, April 2017, pp 255-258	Kumar, S., Singh, G., and Mohapatra, S. K.,	0.385
11	Biodiesel production from frying oil using zinc-doped calcium oxide as heterogeneous catalyst	Energy Sources, Recovery, Utilization, and Environmental Effects, 39, 9, 861-866.	Kataria, J., Mohapatra, S. K., Kundu, K.K.	0.358
12	Study of particle size distribution of pulverized coals in utility boilers	, Particulate Science and Technology, http://dx.doi.org/10.1080/02726351.2017.1334731 , June 2017	Vishnoi, N. and Mohapatra, S. K	0.7
13	Trajectory tracking through overwhelming control of human vertebrae as hybrid manipulator	Simulation, Transactions of the Society for Modeling and Simulation International, Sage Publishing House DOI: 10.1177/0037549716686404 Vol. 93, No. 3, pp. 251–263, 2017.	Arora R., Bera T. K.	0.713
14	Modelling of autonomic regulation in cardiovascular system based on baroreflex model	Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering (ISSN: 0959-6518), Vol. 231, No. 4, pp. 299–311, 2017.	Sharma K., and Bera T. K.	1.051
15	Physical model reduction of	Iranian Journal of	Arora R., Bera	0.217

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	a parallel and hybrid manipulator	Science and Technology, Springer, 2017 (Online).	T. K.	
16	Thermal modelling, simulation and experimental validation of heat accumulation in a framed glass cabin	Journal of Theoretical and Applied Mechanics, 2017 (Online)	Bera T. K., Dixit S., Bhattacharya A., Kumar D. and Samantaray A.K.	0.683
17	Hydraulic flow model of plant organs in response to physical and environmental factors	Simulation, Transactions of the Society for Modeling and Simulation International, Sage Publishing House. 2017 (Online)	Lahkar B., and Bera T. K.	0.713
18	Physiochemical and leaching characteristics of fly and bottom ash	Journal of Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 38:16, 2377-2382,2016	Manikanwar, and Rath, Dwarika	0.53
19	Characterization of heavy metal trace elements in the fly ash from a thermal power plant	Journal of Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 38:16, 2370-2376,2016	Kumar S., Kumar K., and Gupta M	0.53
20	Leaching characteristics of heavy metal in bottom ash from Indian thermal power plant	Journal of Scientific & Industrial Research, 74(3), 255-258,2017	Kumar S., Singh. G; and Mohapatra, S. K	0.5
21	Influence of particle size distribution and temperature on rheological behavior of coal slurry	International Journal of Coal Preparation and Utilization, 3, 4449,2016	Kumar S., S, Manikanwar, and Rath, Dwarika	0.92

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22	An investigation into the effect of nanoclusters growth on perikinetic heat conduction mechanism in an oxide based nanofluid	Powder Technology, vol. 311, pp. 273-286.	Lal Kundan, S. S. Mallick and Bonamali Pal	2.942
23	Effect of time dependent nanoclusters morphology on the thermal conductivity and heat transport mechanism of TiO ₂ Based Nanofluid	Heat and Mass Transfer, Springer, vol. 53, pp. 1873-1892.	Lal Kundan, S. S. Mallick and Bonamali Pal	1.233
24	An investigation into modelling thermal conductivity for alumina-water nanofluids	Powder Technology”, Vol. 233, pp. 234–244.	Mallick S.S., Mishra, A. & Kundan L.	2.269
25	Development and experimental study of an improved basin type vertical single distillation cell solar still.	Desalination, Vol. 398, pp. 121-132, 2016	Kaushal, A. K., Mittal, M. K.Gangachary ulu, D.	4.412
26	An experimental study of floating wick basin type vertical multiple effect diffusion solar still with waste heat recovery	Desalination Vol. 414, pp. 35-45	Kaushal, A. K., Mittal, M. K.Gangachary ulu, D.	4.412
27	An Inverse Trigonometric Shear Deformation Theory for Supersonic Flutter Characteristics of Multilayered Composite Plates	Aerospace Science and Technology. Volume 52, Pages 41–51.	Grover N, Singh BN, Maiti DK	0.57
28	Influence of parametric uncertainties on the deflection statistics of general laminated composite and sandwich plates	Composite Structures, Volume 171, pages 158-169.	Grover N, Sahoo R, Singh BN, Maiti DK	3.858
29	Microstructure and texture development during cold rolling in UNS 32205 and	Metallurgical and Materials Transaction A (2017) 48: 2349	Amit Kumar, Darshan Chalapathi,	1.874

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	UNS 32760 duplex stainless steels		Gulshan Kumar, Rajesh Khatirkar, Satyam Suwas	
30	A Simple, Efficient and Accurate Bézier Extraction based T-spline XIGA for Crack Simulations	Theoretical and Applied Fracture Mechanics, Vol. 88, pp. 74-96	S.K Singh, I.V Singh, B.K Mishra, G. Bhardwaj, T.Q Bui	2.659
31	Modelling of urban traffic noise using a systems approach	Proceedings of the Institution of Civil Engineers: Transport. doi: 10.1680/jtran.16.00094	Daljeet Singh, S. P. Nigam, V. P. Agrawal & Maneek Kumar	0.402
32	Modelling and Analysis of Urban Traffic Noise System Using Algebraic Graph Theoretic Approach	Acoustics Australia	Daljeet Singh, S. P. Nigam, V. P. Agrawal & Maneek Kumar	0.604
33	Vehicular traffic noise prediction using soft computing approach	Journal of Environmental Management, 183(1), pp. 59-66	Daljeet Singh, S. P. Nigam, V. P. Agrawal & Maneek Kumar	4.01
34	Effect of surface treatment of nanoclay on the mechanical properties of epoxy/glass fiber/clay nanocomposites	Composite Interfaces, 23(7), pp.623-640	Bikramjit Sharma, Rahul Chhibber & Rajeev Mehta	1.04
35	A review of tool wear prediction during friction stir welding of aluminium matrix composite	Transactions of Nonferrous Metals Society of China 26(2016) 2003-2018	Ashish Bist, J. S. Saini, Bikramjit Sharma	1.34
36	Curing studies and mechanical properties of glass fiber reinforced composites based on silanized clay minerals	Applied Clay Science, 138 (2017): 89-99.	Bikramjit Sharma, Rahul Chhibber and Rajeev Mehta	2.58

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37	Thermal modelling, simulation and experimental validation of heat accumulation in a framed glass cabin	Journal of Theoretical and Applied Mechanics, 2017 (Online)	Devender Kumar, Bera T. K., Dixit S., Bhattacharya A. and Samantaray A.K.	0.679
38	Preliminary metallurgical and mechanical investigations of microwave processed hastelloy joints	ASME, 139, 1-5.	Singh, S., Singh, R., Gupta, D., Jain, V.,	1.087
39	Processing of Ni-WC-8Co MMC casting through microwave melting	Mater. Manuf. Processes, Taylor & Francis	Singh, S., Gupta, D., Jain, V.,	1.42
40	Investigation on failure modes for pin joints made from unidirectional glass-epoxy nanoclay laminates	Fatigue and Fracture of Engineering Materials and Structures, Vol. 39 (3), March, 2016.pp. 320-334	Manjeet Singh, J. S. Saini, H. Bhunia	2.3
41	A Review of Tool Wear Prediction during Friction Stir Welding of Aluminium Matrix Composite	Transactions of Nonferrous Metals Society of China, Vol. 26 (8), August, 2016 pp. 2003-2018	Ashish Bist, J. S. Saini, Bikramjit Sharma	1.34
42	Metallurgical and Mechanical Investigations of Microwave Processed Hastelloy Joints	ASME: , Journal of Manufacturing Science and Engineering, Vol. 139, 064503-1-5	Singh, S., Gupta, D., Jain, V.	3.48
43	On microstructure and wear behavior of microwave processed composite clad	ASME:Journal of Tribology, doi:10.1115/1.4035844	Sarbjeeet Kaushal, Dheeraj Gupta, Hiralal Bhowmick	1.521
44	Processing of Ni-WC-8Co MMC casting through microwave melting	Journal of Materials and Manufacturing Processes, http://dx.doi.org/10.1080/10426914.2017.1291954	Singh, S., Gupta, D., Jain, V.	1.71

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45	An approach for functionally graded cladding of composite material on austenitic stainless steel substrate through microwave heating	Journal of Composite Materials DOI: https://doi.org/10.1177/0021998317705977	Sarbjeeet Kaushal, Dheeraj Gupta, Hiralal Bhowmick	1.494
46	Potential Heat Transfer Fluids (Nanofluids) for Direct Volumetric Absorption-Based Solar Thermal Systems	Journal of Thermal Science and Engineering Applications doi: 10.1115/1.4036795	Khullar, V., Bhalla, V. and Tyagi, H.,	0.985
47	Evaluation of corrosion performance of Superni 600 hung in secondary chamber of medical waste incinerator operating at 1050° C	Materials at High Temperatures, vol 34(1)/45-52	Deepa Mudgal, Lalit Ahuja, Surendra Singh, Satya Prakash	0.802
48	Corrosion behaviour of Cr3C2-NiCr coated superalloys under actual medical waste incinerator	Surface and coating technology/ DOI: https://doi.org/10.1016/j.surfcoat.2017.06.050	Deepa Mudgal, Lalit Ahuja, Surendra Singh, Satya Prakash	2.589
49	Experimental investigations on flow induced vibration of an externally excited flexible	Journal of Sound and Vibration, 371 (2016) 237-251	A. Purohit, A.K. Darpe, S.P. Singh	2.1
50	Comprehensive characterization of Indian bottom ash: Assessment of its potential utilization	Energy Sources, Part A, Recovery Utilisation and Environmental Effects 38, 18, pp 2704-2710	Kumar S., Singh MK, Mohapatra, S. K.	0.53
51	An assessment of physical, mineral, and rheological properties of fly ash for stowing in coal mines	Energy Sources, Part A: Recovery, utilization, and environmental effects, 38, 20, 2955-62	Kumar S., Singh, G., Mohapatra, S. K	0.53
52	Properties of glass fiber hybrid composites: A Review	Polymer Plastics Technology and Engineering, http://dx.doi.org/10.1080/03602559.2016.1233271	Singh, J., Kumar, M., Kumar S., Mohapatra, S. K.	1.52

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53	Influence of chemical leaching on rheology and ash reduction of Indian coal	International Journal of Coal Preparation and Utilisation, http://dx.doi.org/10.1080/19392699.2016.1247053	Juneja, P., Kumar S., and Mohapatra, S. K.,	1.05
54	Leaching characteristics of bottom ash from thermal power plants	Energy Sources, Part A: Utilisation and Environmental Effects, 38, 5, pp 686-694	Kumar S. Gandhi B. K., Mohapatra, S. K.	0.53
55	Environmental impact assessment of ash disposal system of thermal power plants	International Journal of Hydrogen Energy, doi: 10.1016/j.ijhydine.2016.03.171. Published online: June 15, 2017	Singh G. , Kumar S., Singh M K, Mohapatra S K	3.205
56	Process optimization of Tung oil methyl ester (Vernicia fordii) using the Taguchi approach, and its fuel characterization	Taylor and francis Biofuels, DOI: 0.1080/17597269.2017.1334441	S S Ragit, & S L Ghadave	1.16
57	Optimization of Safflower Oil Transesterification Method Using Taguchi Approach	Taylor and francis, Accepted on May 2017	Nitin saini, S K Mohapatara, S S Ragit and Kundu	0.655
58	Comparative studies on performance characteristics of CI engine fuelled with neem methyl ester and mahua methyl ester and its respective blends with diesel fuel	Journal of Environmental Science & Engineering, Volume 56, Issue 1, pp. 73-78, January 2017,	S.S.Ragit, S.K.Mohapata, &K.Kundu	0.67
59	Kinematic Modeling of Robotic Manipulators: A Review	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences July 2016. (Online) DOI - 10.1007/s40010-016-0285-x (In press).	Amanpreet Singh, Ashish Singla	0.43

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60	Influence of flow velocity and flexural rigidity on the flow induced vibration and acoustic characteristics of a flexible plate	Journal of Vibration and Control, 1077546316685227	A. Purohit, A.K. Darpe, S.P. Singh	1.6