

SCI Publications Jul 2017-June 2018

S.No	Paper	I.F.
1.	Rosha, Pali, Amit Dhir, and Saroj Kumar Mohapatra. "Influence of gaseous fuel induction on the various engine characteristics of a dual fuel compression ignition engine: a review." <i>Renewable and Sustainable Energy Reviews</i> 82 (2018): 3333-3349.	9.184
2.	Singh, Karanbir, Tarun Nanda, and Rajeev Mehta. "Addition of nanoclay and compatibilized EPDM rubber for improved impact strength of epoxy glass fiber composites." <i>Composites Part A: Applied Science and Manufacturing</i> 103 (2017): 263-271.	6.282
3.	Singh, Karanbir, Tarun Nanda, and Rajeev Mehta. "Compatibilization of polypropylene fibers in epoxy based GFRP/clay nanocomposites for improved impact strength." <i>Composites Part A: Applied Science and Manufacturing</i> 98 (2017): 207-217.	6.282
4.	Bhalla, Vishal, Vikrant Khullar, and Himanshu Tyagi. "Experimental investigation of photo-thermal analysis of blended nanoparticles (Al ₂ O ₃ /Co ₃ O ₄) for direct absorption solar thermal collector." <i>Renewable Energy</i> 123 (2018): 616-626.	5.439
5.	Garg, Kapil, Vikrant Khullar, Sarit K. Das, and Himanshu Tyagi. "Performance evaluation of a brine-recirculation multistage flash desalination system coupled with nanofluid-based direct absorption solar collector." <i>Renewable Energy</i> 122 (2018): 140-151.	5.439
6.	Sharma, Ashutosh, Shruti Sharma, Sandeep Sharma, and Abhijit Mukherjee. "Monitoring invisible corrosion in concrete using a combination of wave propagation techniques." <i>Cement and Concrete Composites</i> 90 (2018): 89-99.	5.172
7.	Singh, Harmanpreet, and S. K. Mohapatra. "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." <i>Journal of the Energy Institute</i> 91, no. 1 (2018): 43-54.	4.217
8.	Grover, Vishwas, and Anant Kumar Singh. "Modelling of surface roughness in a new magnetorheological honing process for internal finishing of cylindrical workpieces." <i>International Journal of Mechanical Sciences</i> 144 (2018): 679-695.	4.134
9.	Sharma, Ashutosh, Shruti Sharma, Sandeep Sharma, and Abhijit Mukherjee. "Investigation of deterioration in corroding reinforced concrete beams using active and passive techniques." <i>Construction and Building Materials</i> 161 (2018): 555-569.	4.046

10.	Bhalla, Nikita, Sandeep Sharma, Shruti Sharma, and Rafat Siddique. "Monitoring early-age setting of silica fume concrete using wave propagation techniques." <i>Construction and Building Materials</i> 162 (2018): 802-815.	4.046
11.	Sadhu, Sayan, Maddali Ramgopal, and Souvik Bhattacharyya. "Experimental studies on an air-cooled natural circulation loop based on supercritical carbon dioxide–Part A: Steady state operation." <i>Applied Thermal Engineering</i> 133 (2018): 809-818.	3.65
12.	Sadhu, Sayan, Maddali Ramgopal, and Souvik Bhattacharyya. "Experimental studies on an air-cooled natural circulation loop based on supercritical carbon dioxide–Part B: Transient operation." <i>Applied Thermal Engineering</i> 133 (2018): 819-827.	3.65
13.	Ahuja, Lalit, Deepa Mudgal, Surendra Singh, and Satya Prakash. "A comparative study to evaluate the corrosion performance of Zr incorporated Cr ₃ C ₂ -(NiCr) coating at 900° C." <i>Ceramics International</i> 44, no. 6 (2018): 6479-6492.	3.45
14.	Singh, Virender, Manashi Adhikary, T. Venugopalan, Arnab Chakraborty, Tarun Nanda, and B. Ravi Kumar. "Role of recrystallization and pearlite dissolution in industrial processing of DP590 steels." <i>Materials and Manufacturing Processes</i> 32, no. 16 (2017): 1806-1816.	3.35
15.	Singh, Karanbir, Tarun Nanda, and Rajeev Mehta. "Processing of polyethylene terephthalate fiber reinforcement to improve compatibility with constituents of GFRP nanocomposites." <i>Materials and Manufacturing Processes</i> 33, no. 2 (2018): 165-173.	3.35
16.	Nanda, Tarun, B. Ravi Kumar, Sailaja Sharma, Vishal Singh, and O. P. Pandey. "Effect of thermal cycling process parameters on recrystallization kinetics for processing of fine-grained pure copper." <i>Materials and Manufacturing Processes</i> 32, no. 1 (2017): 34-43.	3.35
17.	Mittal, Mayank, Tarun Nanda, B. Ravi Kumar, and Vishal Singh. "Effect of inter-critical annealing parameters on ferrite recrystallization and austenite formation in DP 590 steel." <i>Materials and Manufacturing Processes</i> 32, no. 11 (2017): 1231-1238.	3.35
18.	Duvedi, Ravinder Kumar, Sanjeev Bedi, and Stephen Mann. "Numerical implementation of drop and tilt method of five-axis tool positioning for tensor product surfaces." <i>The International Journal of Advanced Manufacturing Technology</i> 95, no. 1-4 (2018): 219-232.	2.601
19.	Bedi, Talwinder Singh, and Anant Kumar Singh. "A new magnetorheological finishing process for ferromagnetic cylindrical	2.274

	honed surfaces." <i>Materials and Manufacturing Processes</i> 33, no. 11 (2018): 1141-1149.	
20.	Singh, Manpreet, Ashpreet Singh, and Anant Kumar Singh. "A rotating core-based magnetorheological nano-finishing process for external cylindrical surfaces." <i>Materials and Manufacturing Processes</i> 33, no. 11 (2018): 1160-1168.	2.274
21.	Bedi, Talwinder Singh, and Anant Kumar Singh. "Magnetorheological finishing of ferromagnetic blind-hole type surfaces." <i>Materials and Manufacturing Processes</i> 33, no. 11 (2018): 1169-1176.	2.274
22.	Grover, Vishwas, and Anant Kumar Singh. "Improved magnetorheological honing process for nanofinishing of variable cylindrical internal surfaces." <i>Materials and Manufacturing Processes</i> 33, no. 11 (2018): 1177-1187.	2.274
23.	Kumar, Sumit, and Anant Kumar Singh. "Magnetorheological nanofinishing of BK7 glass for lens manufacturing." <i>Materials and Manufacturing Processes</i> 33, no. 11 (2018): 1188-1196.	2.274
24.	Kansal, Harsh, Anant Kumar Singh, and Vishwas Grover. "Magnetorheological nano-finishing of diamagnetic material using permanent magnets tool." <i>Precision Engineering</i> 51 (2018): 30-39.	2.237
25.	Sharma, Ankit, Vivek Jain, and Dheeraj Gupta. "Characterization of chipping and tool wear during drilling of float glass using rotary ultrasonic machining." <i>Measurement</i> 128 (2018): 254-263.	2.21
26.	Maan, Sahil, and Anant Kumar Singh. "Nano-surface finishing of hardened AISI 52100 steel using magnetorheological solid core rotating tool." <i>The International Journal of Advanced Manufacturing Technology</i> 95, no. 1-4 (2018): 513-526.	2.209
27.	Kaur, Navdeep, Gurbinder Kaur, Devender Kumar, and K. Singh. "Mechanical and thermal properties of SrO/BaO modified Y2O3-Al2O3-B2O3-SiO2 glasses and their compatibility with solid oxide fuel cell components." <i>Journal of Physics and Chemistry of Solids</i> 118 (2018): 248-254.	2.207
28.	Shukla, Rajesh Kumar, Virendra Patel, and Arvind Kumar. "Modeling of rapid solidification with undercooling effect during droplet flattening on a substrate in coating formation." <i>Journal of Thermal Spray Technology</i> 27, no. 3 (2018): 269-287.	1.949
29.	Sadhu, Sayan, Maddali Ramgopal, and Souvik Bhattacharyya. "Steady-state analysis of a high-temperature natural circulation loop	1.86

	based on water-cooled supercritical CO ₂ ." <i>Journal of Heat Transfer</i> 140, no. 6 (2018).	
30.	Kundan, Lal, and Soumya Suddha Mallick. "Effect of time dependent morphological parameters of nanoclusters on perikinetic heat conduction and induced micro-convection mechanisms of oxide based nanofluids." <i>Experimental Heat Transfer</i> 31, no. 3 (2018): 251-274.	1.687
31.	Kumar, Sumit, and Anant Kumar Singh. "Nanofinishing of BK7 glass using a magnetorheological solid rotating core tool." <i>Applied optics</i> 57, no. 4 (2018): 942-951.	1.65
32.	Chani, Kulwinder Singh, J. S. Saini, and H. Bhunia. "Effect of nanoclay and bolt preloads on the strength of bolted joints in glass epoxy nanocomposites." <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> 40, no. 4 (2018): 184.	1.627
33.	Singh, Manjeet, J. S. Saini, H. Bhunia, and Paramdeep Singh. "Application of Taguchi method in the optimization of geometric parameters for double pin joint configurations made from glass-epoxy nanoclay laminates." <i>Journal of Composite Materials</i> 51, no. 19 (2017): 2689-2706.	1.613
34.	Singh, Manjeet, J. S. Saini, and H. Bhunia. "To study the contribution of different geometric parameters on the failure load for multi holes pin joints prepared from glass/epoxy nanoclay laminates." <i>Journal of Composite Materials</i> 52, no. 5 (2018): 629-644.	1.613
35.	Singh, Jatinder Pal, Satish Kumar, and S. K. Mohapatra. "Head loss investigations inside 90 pipe bend for conveying of fine coal-water slurry suspension." <i>International Journal of Coal Preparation and Utilization</i> (2017): 1-17.	1.527
36.	Singh, Harmanpreet, Satish Kumar, and Saroj Kumar Mohapatra. "Improved slurryability and rheological characteristics of high ash Indian coal by hydrothermal treatment." <i>International Journal of Coal Preparation and Utilization</i> (2018): 1-13.	1.527
37.	Khullar, Vikrant, Himanshu Tyagi, Todd P. Otanicar, Yasitha L. Hewakuruppu, and Robert A. Taylor. "Solar selective volumetric receivers for harnessing solar thermal energy." <i>Journal of Heat Transfer</i> 140, no. 6 (2018).	1.479
38.	Nanda, Tarun, B. Ravi Kumar, and Vishal Singh. "A simplified micromechanical modeling approach to predict the tensile flow curve behavior of dual-phase steels." <i>Journal of Materials Engineering and Performance</i> 26, no. 11 (2017): 5180-5187.	1.476

39.	Sekhon, Manjeet, J. S. Saini, Gaurav Singla, and H. Bhunia. "Influence of nanoparticle fillers content on the bearing strength behavior of glass fiber-reinforced epoxy composites pin joints." <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> 231, no. 8 (2017): 641-656.	1.281
40.	Bedi, Talwinder Singh, and Anant Kumar Singh. "Development of magnetorheological fluid-based process for finishing of ferromagnetic cylindrical workpiece." <i>Machining Science and Technology</i> 22, no. 1 (2018): 120-146.	1.172
41.	Singh, Amanpreet, Ekta Singla, Sanjeev Soni, and Ashish Singla. "Kinematic modeling of a 7-degree of freedom spatial hybrid manipulator for medical surgery." <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> 232, no. 1 (2018): 12-23.	1.124
42.	Khullar, Vikrant, Vishal Bhalla, and Himanshu Tyagi. "Potential heat transfer fluids (nanofluids) for direct volumetric absorption-based solar thermal systems." <i>Journal of Thermal Science and Engineering Applications</i> 10, no. 1 (2018).	1.115
43.	Singla, Ashish, and Gurminder Singh. "Real-time swing-up and stabilization control of a cart-pendulum system with constrained cart movement." <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> 18, no. 6 (2017): 525-539.	1.112
44.	Chawla, Ishan, and Ashish Singla. "Real-time control of a rotary inverted pendulum using robust LQR-based ANFIS controller." <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> 19, no. 3-4 (2018): 379-389.	1.112
45.	Singh, Jatinder Pal, Satish Kumar, and S. K. Mohapatra. "Head loss investigations inside 90 pipe bend for conveying of fine coal-water slurry suspension." <i>International Journal of Coal Preparation and Utilization</i> (2017): 1-17.	1.081
46.	Singh, Ratnesh Kumar Raj, Dinesh W. Rathod, and Sunil Pandey. "Friction stir welding of nuclear grade SA508Gr. 3Cl. 1 and SS304LN dissimilar steels." <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> 232, no. 21 (2018): 3814-3822.	0.996
47.	Rupal, Baltej Singh, Sajid Rafique, Ashish Singla, Ekta Singla, Magnus Isaksson, and Gurvinder Singh Virk. "Lower-limb exoskeletons: Research trends and regulatory guidelines in medical and non-medical applications." <i>International Journal of Advanced Robotic Systems</i> 14, no. 6 (2017): 1729881417743554.	0.952

48.	Ravi Kumar, B., Vishal Singh, Tarun Nanda, Manashi Adhikary, Nimai Halder, and T. Venugopalan. "Effect of Tailoring Martensite Shape and Spatial Distribution on Tensile Deformation Characteristics of Dual Phase Steels." <i>Journal of Engineering Materials and Technology</i> 140, no. 2 (2018).	0.828
49.	Singh, Daljeet, Shri Prakash Nigam, Vishnu Prakash Agrawal, and Maneek Kumar. "Modelling of urban traffic noise using a systems approach." In <i>Proceedings of the Institution of Civil Engineers-Transport</i> , vol. 171, no. 4, pp. 235-244. Thomas Telford Ltd, 2018.	0.792
50.	Grover, Vishwas, and Anant Kumar Singh. "Analysis of particles in magnetorheological polishing fluid for finishing of ferromagnetic cylindrical workpiece." <i>Particulate Science and Technology</i> 36, no. 7 (2018): 799-807.	0.784
51.	Singh, D., S. P. Nigam, V. P. Agrawal, and M. Kumar. "Noise Barriers as an Abatement Strategy." (2018).	0.735
52.	Singh, Kulwinder, J. S. Saini, and H. Bhunia. "Effect of Metallic Inserts on the Strength of Pin Joints Prepared from Glass Fiber Reinforced Composites." <i>Defence Science Journal</i> 67, no. 5 (2017): 592.	0.5
53.	Kumar, Parveen, Gurmeet Singh, Vivek Jain, and Dheeraj Gupta. "Optimization of process parameters for improving drilling quality and machining performance of abrasive assisted drilling on AISI D2 steel." (2018).	0.43
54.	Godara, R. K., and M. M. Joglekar. "Suppression of contact bounce in beam-type microelectromechanical switches using a feedforward control scheme." <i>Journal of Vibration and Control</i> 24, no. 23 (2018): 5502-5513.	
55.	Singh, Harpreet, ParamPreet Singh, and Hiralal Bhowmick. "Influence of MoS ₂ , H ₃ BO ₃ , and MWCNT additives on the dry and lubricated sliding tribology of AMMC–Steel contacts." <i>Journal of Tribology</i> 140, no. 4 (2018).	
56.	Kaushal, Sarbjeet, Dheeraj Gupta, and Hiralal Bhowmick. "On processing of Ni-WC based functionally graded composite clads through microwave heating." <i>Materials and Manufacturing Processes</i> 33, no. 8 (2018): 822-828.	
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	austenitic stainless steel through microwave hybrid heating." <i>Materials Research Express</i> 5, no. 3 (2018): 036401.	
58.	Kaushal, Sarbjeet, Dheeraj Gupta, and Hiralal Bhowmick. "On development and wear behavior of microwave-processed functionally graded Ni-SiC clads on SS-304 substrate." <i>Journal of Materials Engineering and Performance</i> 27, no. 2 (2018): 777-786.	
59.	Kaushal, Sarbjeet, Bhupinder Singh, Dheeraj Gupta, Hiralal Bhowmick, and Vivek Jain. "An approach for developing nickel–alumina powder-based metal matrix composite cladding on SS-304 substrate through microwave heating." <i>Journal of Composite Materials</i> 52, no. 16 (2018): 2131-2138.	
60.	Kaushal, Sarbjeet, Dheeraj Gupta, and Hiralal Bhowmick. "On surface modification of austenitic stainless steel using microwave processed Ni/Cr3C2 composite cladding." <i>Surface Engineering</i> 34, no. 11 (2018): 809-817.	
61.	Kaushal, A. K., M. K. Mittal, and D. Gangacharyulu. "Productivity correlation and economic analysis of floating wick basin type vertical multiple effect diffusion solar still with waste heat recovery." <i>Desalination</i> 423 (2017): 95-103.	
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64.	Sharma, Bikramjit, Rahul Chhibber, and Rajeev Mehta. "Seawater ageing of glass fiber reinforced epoxy nanocomposites based on silylated clays." <i>Polymer Degradation and Stability</i> 147 (2018): 103-114.	
65.	Kaur, Baldeep, Anu Mittal, Soumendu Jana, Soumya Suddha Mallick, and Peter Wypych. "Stability and phase space analysis of fluidized-dense phase pneumatic transport system." <i>Powder technology</i> 330 (2018): 190-200.	
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68.	Singh, S. K., I. V. Singh, B. K. Mishra, and G. Bhardwaj. "Analysis of cracked plate using higher-order shear deformation theory: Asymptotic crack-tip fields and XIGA implementation." <i>Computer Methods in Applied Mechanics and Engineering</i> 336 (2018): 594-639.	
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72.	Singh, Arshpreet, and Anupam Agrawal. "Investigation of parametric effects on geometrical inaccuracies in deformation machining process." <i>Journal of Manufacturing Science and Engineering</i> 140, no. 7 (2018).	
73.	Heidari, Shahin, Saeed Seif Mohammadi, Amandeep Singh Oberoi, and John Andrews. "Technical feasibility of a proton battery with an activated carbon electrode." <i>International Journal of Hydrogen Energy</i> 43, no. 12 (2018): 6197-6209.	
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75.	Godara, R. K., and M. M. Joglekar. "Suppression of contact bounce in beam-type microelectromechanical switches using a feedforward control scheme." <i>Journal of Vibration and Control</i> 24, no. 23 (2018): 5502-5513.	
76.	Arora, Rashmi, and Tarun Kumar Bera. "Physical model reduction of a parallel and hybrid manipulator using eigenvalue sensitivity method." <i>Iranian Journal of Science and Technology, Transactions of Mechanical Engineering</i> 42, no. 2 (2018): 137-147.	

77.	Lahkar, Bhriku Kumar, and Tarun Kumar Bera. "Hydraulic flow model of plant organs in response to physical and environmental factors." <i>Simulation</i> 93, no. 10 (2017): 869-882.	
78.	Kanigalpula, P. K. C., Sanjib Jaypuria, Dilip K. Pratihar, and Maha N. Jha. "Experimental investigations, input-output modeling, and optimization of spiking phenomenon in electron beam welding of ETP copper plates." <i>Measurement</i> 129 (2018): 302-318.	
79.	Kaushal, Sarbjeet, Dheeraj Gupta, and Hiralal Bhowmick. "On processing of Ni-Cr ₃ C ₂ based functionally graded clads through microwave heating." <i>Materials Research Express</i> 5, no. 6 (2018): 066405.	
80.	Kaushal, Sarbjeet, Dheeraj Gupta, and Hiralal Bhowmick. "On development and wear behavior of microwave-processed functionally graded Ni-SiC clads on SS-304 substrate." <i>Journal of Materials Engineering and Performance</i> 27, no. 2 (2018): 777-786.	
81.	Kumar, Sachin, and G. Bhardwaj. "A new enrichment scheme in XFEM to model crack growth behavior in ductile materials." <i>Theoretical and Applied Fracture Mechanics</i> 96 (2018): 296-307.	
82.	Rai, Akhand, and Sanjay H. Upadhyay. "Intelligent bearing performance degradation assessment and remaining useful life prediction based on self-organising map and support vector regression." <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> 232, no. 6 (2018): 1118-1132.	
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84.	Garg, Vivek, S. S. Mallick, Pablo Garcia-Trinanes, and Robert James Berry. "An investigation into the flowability of fine powders used in pharmaceutical industries." <i>Powder technology</i> 336 (2018): 375-382.	
85.	Khullar, Vikrant, Prashant Mahendra, and Madhup Mittal. "Applicability OF Heat Mirrors in Reducing Thermal Losses in Concentrating Solar Collectors." <i>Journal of Thermal Science and Engineering Applications</i> 10, no. 6 (2018).	
86.	Mudgal, Deepa, Lalit Ahuja, Surendra Singh, and Satya Prakash. "Corrosion behaviour of Cr ₃ C ₂ -NiCr coated superalloys under actual medical waste incinerator." <i>Surface and Coatings Technology</i> 325 (2017): 145-156.	

87.	Joshua, Yadwinder S., Neeraj Grover, and B. N. Singh. "Assessment of non-polynomial shear deformation theories for thermo-mechanical analysis of laminated composite plates." <i>Steel and Composite Structures</i> 27, no. 6 (2018): 761-775.	