

2. 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	CFD modeling of erosin wear in pipe bend for the flow of bottom ash suspension, Particulate Science and Technology	http://dx.doi.org/10.1080/02726351.2017.1364816	Singh, J., Kumar S., Singh, JP, Kumar P., Mohapatra, S. K.	(IF 0.7)
2	Influence of gaseous fuel induction on the various engine characteristics of a dual fuel compression ignition engine	A review, Renewable and Sustainable Energy Review https://doi.org/10.1016/j.rser.2017.10.055	Rosha, P. Dhir, A., and Mohapatra, S. K.	(IF =8.5)
3	Head loss investigations inside 90° pipe bend for conveying of fine coal water slurry suspension	International Journal of Coal Preparation and Utilisation, Taylor and Francis, https://doi.org/10.1080/19392699.2017.1415	Singh, J. P., Kumar S., and Mohapatra, S. K.	(IF: 1.05)
4	Study of particle size distribution of pulverized coals in utility boilers	Particulate Science and Technology, Taylor and Francis, 36, pp 999-1005, 2018	Vishnoi, N. and Mohapatra, S. K	.(IF. =0.7)
5	Influence of gaseous fuel induction on the various engine characteristics of a dual fuel compression ignition engine	A review, Renewable and Sustainable Energy Review, 82, pp 3333-3349	Saini, N., Ragit, S. S., and Mohapatra, S. K.	(IF =8.5)
6	Head loss investigations inside 90° pipe bend for conveying of fine coal water slurry suspension	International Journal of Coal Preparation and Utilisation, Taylor and Francis, https://doi.org/10.1080/19392699.2017.1415	Singh, J. P., Kumar S., and Mohapatra, S. K	(IF: 1.05)
7	Production of producer gas from sugarcane bagasse and carpentry waste and its sustainable use in dual fuel CI engine:	A performance, emission, and noise investigation, <i>Journal of the Energy Institute, Elsevier</i> , 91, 2018, pp 43-54	Singh H. and Mohapatra, S. K	(IF: 3.204)
8	Biodiesel production from waste cooking oil using heterogeneous catalysts and its operational characteristics on variable compression ratio CI engine	Journal of the energy Institute, https://doi.org/10.1016/joel.2018.01.008	Kataria, J., Mohapatra, S. K., and Kundu, K	(IF: 3.204)
9	Improved slurribility and	International Journal of	Singh H., Kumar	(IF:1.05)

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	rheological characteristics of high ash Indian coal by hydrothermal treatment	Coal Preparation and Utilisation, Taylor and Francis, https://doi.org/10.1080/19392699.2018.1461624	S. and Mohapatra, S. K.	
10	Optimisation of hydrogen enriched biogas by dry oxidative reforming with (Ni) Nano powder using response surface methodology	Energy & Fuels, ACS Publications, doi: 10.1021/acs.energyfuels.8b00819, May 2018.	Rosha P., Singh R., Mohapatra, S. K., Mahla, S.K., Dhir A	
11	Leaching of Indian Coal for Ash Reduction	Iranian Journal of Chemistry and Chemical Engineering, (Accepted) May 2018	Kumar S., Singh JP, Singh M. K., Singh G., Mohapatra, S. K., Alkali	
12	Erosion tribo-performance of HVOF deposited stellite-6 and colmony-88 micron layers on SS-316 L	Tribology International, https://doi.org/10.1016/j.triboint.2018.06.004 , June 2018	Singh J., Kumar S., and Mohapatra, S. K.	(IF: 3.246)
13	Suppression of contact bounce in beam-type microelectromechanical switches using a feedforward control scheme	Journal of Vibration and Control, https://doi.org/10.1177/1077546318755978	RK Godara, MM Joglekar	
14	Effect of time dependent morphological parameters of nanoclusters on perikinetic heat conduction and induced micro-convection mechanisms of oxide based nanofluids	Experimental Heat Transfer: A Journal of Thermal Energy Generation, Transport, Storage, and Conversion, DOI: 10.1080/08916152.2017.1410504	Lal Kundan and Soumya Suddha Mallick	
15	Application of Taguchi Method in the Optimization of Geometric Parameters for Double Pin Joint Configurations made from Glass-Epoxy Nanoclay Laminates	Defence Science Journal, Vol. 67 (5), 592-600	Manjeet Singh, J. S. Saini, H. Bhunia, Paramdeep Singh	
16	Effect of Metallic Inserts on the Strength of Pin	Proceedings of the Institution of Mechanical	Kulwinder Singh, J. S. Saini, H.	

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	Joints Prepared from Glass Fiber Reinforced Composites	Engineers, Part L: Journal of Materials: Design and Applications, Vol 231 (8), 641-656	Bhunia	
17	Influence of nanoparticle fillers content on the bearing strength behavior of glass fiber reinforced epoxy composites pin joints	Journal of Composite Materials, Vol. 52 (5) , 629-644	Manjeet Sekhon, J. S. Saini, Gaurav Singla, H. Bhunia	
18	To Study the Contribution of Different Geometric Parameters on the Failure Load for Multi Holes Pin Joints Prepared from Glass/Epoxy Nanoclay Laminates	Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol 40 (4), 184(1-19)	Manjeet Singh, J. S. Saini, H. Bhunia	
19	Effect of Nanoclay and Bolt Preloads on the Strength of Bolted Joints in Glass Epoxy Nanocomposites	Journal of Physics and Chemistry of Solids 118 (2018) 248–254	Kulwinder Singh Chani, J. S. Saini, H. Bhunia	
20	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 Tribology</i> 140(4): 041801	Navdeep Kaur, Gurbinder Kaur, Devender Kumar, K. Singh	
21	Influence of MoS2, H3BO3, and MWCNT Additives on the Dry and Lubricated Sliding Tribology of AMMC–Steel Contacts.	Defence Science Journal, Vol. 67 (5), 592-600	H Singh, P Singh, H Bhowmick	
22	On processing of Ni-WC based functionally graded composite clads through microwave heating.	<i>Materials and Manufacturing Processes</i> 33 (8) : 822-828	S Kaushal, D Gupta, H Bhowmick	
23	Processing of Ni20WC10Mo based composite clads on austenitic stainless steel through microwave hybrid heating.	Mater. Res. Express 5: 036401	S Kaushal, D Singh, D Gupta, H Bhowmick, V Jain	
24	On Development and Wear Behavior of Microwave-Processed Functionally Graded	J. of Materi Eng and Perform 27: 777	Kaushal, S., Gupta, D. &	

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	Ni-SiC Clads on SS-304 Substrate.		Bhowmick, H.	
25	An approach for developing nickel–alumina powder-based metal matrix composite cladding on SS-304 substrate through microwave heating.	Journal of Composite Materials, 0021998317740732	S Kaushal, B Singh, D Gupta, H Bhowmick, V Jain	
26	On surface modification of austenitic stainless steel using microwave processed Ni/Cr3C2 composite cladding	<i>Surface Engineering</i> , 1-9, https://doi.org/10.1080/02670844.2017.1362808	Kaushal, S., Gupta, D., & Bhowmick, H.	
27	Productivity correlation and economic analysis of floating wick basin type vertical multiple effect diffusion solar still with waste heat recovery	Desalination	A. K. Kaushal, M. K. Mittal, D. Gangacharyulu	
28	An investigation of double-glass-covered trapezoidal salt-gradient solar pond coupled with reflector	International Journal of Green Energy	G.S. Dhindsa, M. K. Mittal	
29	Experimental study of basin type vertical multiple effect diffusion solar still integrated with mini solar pond to generate nocturnal distillate	Energy conversion and management	G.S. Dhindsa, M. K. Mittal	
30	Effect of mixing parameters, post-curing and stoichiometry on mechanical properties of fiber reinforced epoxy-clay nanocomposites	SAGE Part L Journal of Materials Design and Application	Bikramjit Sharma, Rahul Chhibber and Rajeev Mehta	
31	Seawater ageing of glass fiber reinforced epoxy nanocomposites based on silylated clays	Polymer Degradation and Stability	Bikramjit Sharma, Rahul Chhibber and Rajeev Mehta	
32	Stability and phase space analysis of fluidized-dense phase pneumatic transport system	Powder Technology, Volume 330, 1 May 2018, Pages 190-200	Baldeep Kaur, Anu Mittal, Soumendu Jana, Soumya Suddha Mallick, Peter Wypych	

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33	On developing improved modelling for particle velocity and solids friction for fluidized dense-phase pneumatic transport systems	Powder Technology, Volume 332, 1 June 2018, Pages 41-55	Kapil Sharma, SS Mallick, Anu Mittal, Renhu Pan	
34	Multi-shaped tool wear study during rotary ultrasonic drilling and conventional drilling for amorphous solid	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	A sharma, V Jain, D Gupta	
35	Optimization of process parameters for improving drilling quality and machining performance of abrasive assisted drilling on AISI D2 steel	Indian journal of engineering and material science	Singh G, Jain V, Gupta D, Kumar P	
36	Numerical implementation of drop and tilt method of five-axis tool positioning for tensor product surfaces	Int J Adv Manuf Technology, 95:219–232	Ravinder Kumar Duvedi, Sanjeev Bedi, Stephen Mann	
37	An efficient multipoint 5-axis tool positioning method for tensor product surfaces	Int J Adv Manuf Technology, Published online	Ravinder Kumar Duvedi, Sanjeev Bedi, Stephen Mann	
38	Impact of Martensite Spatial Distribution on Quasi-Static and Dynamic Deformation Behavior of Dual-Phase Steel	Metallurgical and Materials Transactions A	Manpreet Singh, Anindya Das, T. Venugopalan, Krishenendu Mukherjee, Mahesh Walnuj, Tarun Nanda, B.Ravi Kumar	
39	Effect of dual particle size (DPS) on dry sliding wear behaviour of LM30/sillimanite composites	Tribology International	Sandeep Sharma Tarun Nanda O.P.Pandey	
40	Addition of nanoclay and compatibilized EPDM rubber for improved impact strength of epoxy glass fiber composites	Composites Part A: Applied Science and Manufacturing	Karanbir Singh, Tarun Nanda, Rajeev Mehta	
41	Effect of particle size on dry sliding wear behaviour of	Composites Part A: Applied	Sandeep Sharma, Tarun Nanda,	

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	sillimanite reinforced aluminium matrix composites	Science and Manufacturing	O.P.Pandey	
42	Effect of Tailoring martensite shape and spatial distribution on the tensile deformation characteristics of dual phase steels	Journal of Engineering Materials and Technology	B. Ravi Kumar, Vishal Singh, Tarun Nanda, Manashi Adhikary, Nimai Halder and T. Venugopalan	
43	A novel characterization method of fiber reinforced polymers with clustered microstructures for time dependent mass transfer	Science and Engineering of Composite Materials First Online: 27 November 2017	Jain D., Mukherjee Abhijit, Bera T. K.	
44	Effect of particle size on dry sliding wear behaviour of sillimanite reinforced aluminium matrix composites	Ceramics International	Sandeep Sharma, Tarun Nanda, O.P. Pandey	
45	Phase Steels	International Journal of Advanced Manufacturing Technology, DOI: 10.1007/s00170-018-2031-9	Talwinder Singh Bedi, Anant Kumar Singh	
46	Analysis of Surface Roughness for Novel Magnetorheological Finishing of a Typical Blind Hole Workpiece	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science. DOI: 10.1177/0954406218776036.	Sohaib Ahmad Sirwal, Anant Kumar Singh	
47	Obstacle avoidance of bicycle vehicle model using overwhelming controller	Arabian Journal for Science and Engineering, Springer February, 2018	Singh R., Bera T. K.	
48	Trajectory Tracking of 3D Hybrid Manipulator through Human Hand Motion	Arabian Journal for Science and Engineering, Springer Accepted on May 17, 2018	Arora R. and Bera T. K.	
49	Real-Time Swing-up and Stabilization Control of a Cart-Pendulum System with Constrained Cart Movement	International Journal of Nonlinear Sciences and Numerical Simulation, De Gruyter, England, Vol. 18, No. 6, pp. 525-539, Sept,	Ashish Singla and Gurminder Singh	

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		2017		
50	Kinematic Modeling of a 7-DOF Spatial Hybrid Manipulator for Medical Surgery	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, Vol. 232, No. 1, pp. 12-23, 2018	Amanpreet Singh, Ekta Singla, Sanjeev Soni and Ashish Singla	
51	Lower-Limb Exoskeletons: Research Trends and Regulatory Guidelines in Medical and Non-Medical Applications	International Journal of Advanced Robotic Systems (IJARS), Vol. 14, No. 6, pp. 1-27, December 2017	Baltej Singh Rupal, Sajid Rafique, Ashish Singla, Ekta Singla, Magnus Isaksson and Gurvinder Singh Virk	
52	Real-Time Control of a Rotary Inverted Pendulum using Robust LQR Based ANFIS Controller	International Journal of Nonlinear Sciences and Numerical Simulation, De Gruyter, England, Vol. 19 (3-4), pp. 379-389, April 2018	Ishan Chawla, Ashish Singla	
53	ANFIS Based Path Planning of 5-DOFs Spatial Manipulator for Medical Applications	Sage - Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, Vol. 232 (7), pp. 726-732, Impact Factor – 1.124, 2018	Jyotindra Narayan, Ekta Singla, Sanjeev Soni and Ashish Singla	
54	An experimental investigation on the effect of particle size into the flowability of fly ash	Powder Technology	Lokesh Rohilla, Vivek Garg, S.S.Mallick, Gautam Setia	
55	Modeling flow properties of fine dry powders using particle morphological properties and its effects on geometry of fly ash evacuation hoppers	Particulate Science and Technology	SS Mallick, Lokesh Rohilla, Vivek Garg, Gautam Setia	
56	Modular Manipulators for Cluttered Environments: A Task-Based Configuration Design Approach	ASME Journal of Mechanisms and Robotics, Vol. 10 (5), pp. 051010-1-11, Impact Factor – 2.23,	Satwinder Singh, Ashish Singla and Ekta Singla	

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		2018		
57	Investigation of parametric effects on geometrical discrepancies in deformation machining process	ASME Journal of Manufacturing Science and Engineering	Arshpreet Singh, Anupam Agrawal	
58	Technical feasibility of a proton battery with an activated carbon electrode.	International Journal of Hydrogen Energy	Shahin Heidari, Saeed Seif Mohammadi, Amandeep Singh Oberoi, and John Andrews	
59	Observations of Spiking Phenomenon in Electron Beam Welded ETP Copper Plates	International Journal of Mechanical Engineering and technology	Vara Prasad, Ram Sai, K. P. K. Chakravarthy, L. Ranganath and M. V. Naresh	
60	Studies on Electron Beam Welding of CuCrZr alloy plate	International Journal of Mechanical Engineering and technology	Bharath Raghav.V. V, Satya Mahesh. P, Sai Ram. K, Lokesh kalian and Chakravarthy K P K	
61	Suppression of contact bounce in beam-type microelectromechanical switches using a feedforward control scheme	Journal of Vibration and Control	RK Godara, MM Joglekar	
62	Physical model reduction of a parallel and hybrid manipulator	Iranian Journal of Science and Technology, Springer, Vol. 42, No. 2, pp. 137–147, June, 2018.	Arora R., Bera T. K.	
63	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. Vol. 93, No. 10, pp. 869–882, October 1, 2017	Lahkar B., and Bera T. K.	

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64	Static and DC dynamic pull-in analysis of curled microcantilevers with a compliant support	Microsystem Technologies	Atul Kumar Sharma, R. K. Godara, M. M. Joglekar	
65	Experimental investigations, input-output modeling, and optimization of spiking phenomenon in electron beam welding of ETP copper plates	Measurement	P K C Kanigalpula, Sanjib jaypuria, D K Pratihari, M N Jha	
66	On processing of Ni-Cr ₃ C ₂ based functionally graded clads through microwave heating	Materials Research Express	Kaushal, S., Gupta, D. and Bhowmick, H. L.	
67	On Development and Wear Behavior of Microwave-Processed Functionally Graded Ni-SiC Clads on SS-304 Substrate	Journal of Materials Engineering and Performance	Kaushal, S., Gupta, D. and Bhowmick, H. L.	
68	A New Enrichment Scheme in XFEM to Model Crack Growth Behavior in Ductile Materials	Theoretical and Applied Fracture Mechanics	Sachin Kumar, G. Bhardwaj	
69	Noise barriers as an abatement strategy	Journal of Scientific and Industrial Research (JSIR)	Daljeet Singh, S. P. Nigam, V. P. Agrawal & Maneek Kumar	
70	Modelling of urban traffic noise using a systems approach	Proceedings of the Institution of Civil Engineers: Transport, 171(4) pp 235-244	Daljeet Singh, S. P. Nigam, V. P. Agrawal & Maneek Kumar	
71	Characterization of Chipping and Tool wear during drilling of Float glass using rotary ultrasonic machining	Measurement	A Sharma, V Jain, D Gupta	
72	Intelligent bearing performance degradation assessment and remaining useful life prediction based on self-organising map and support vector regression	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	A. Rai, S. H. Upadhyay	
73	An integrated approach to bearing prognostics based on	Applied Soft Computing	A. Rai, S. H.	

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	EEMD-multi feature extraction, Gaussian mixture models and Jensen-Rényi divergence		Upadhyay	
74	An investigation into the flowability of fine powders used in pharmaceutical industries	Powder Technology	Garg, V., Mallick, S.S., Garcia-Trinanes, P., Berry, R. J.	
75	Applicability of heat mirrors in reducing thermal losses in concentrating solar collectors	Journal of Thermal Science and Engineering Applications	ISSN: 0032-5910 / Impact Factor 3.331	
76	Corrosion behaviour of Cr ₃ C ₂ -NiCr coated superalloys under actual medical waste incinerator	Surface and Coatings Technology	Deepa Mudgal, Lalit Ahuja, Surendra Singh, Satya Prakash	
77	A comparative study to evaluate the corrosion performance of Zr incorporated Cr ₃ C ₂ -(NiCr) coating at 900° C	Ceramics International	Lalit Ahuja, Deepa Mudgal, Surendra Singh, Satya Prakash	
78	A Simplified Micromechanical Modeling Approach to Predict the Tensile Flow Curve Behavior of Dual-Phase Steels	Journal of Materials Engineering and Performance	Tarun Nanda, B. Ravi Kumar, and Vishal Singh	
79	Modeling of surface roughness in a new magnetorheological honing process for internal finishing of cylindrical workpieces	International Journal of Mechanical Sciences	Vishwas Grover, Anant Kumar Singh	
80	Monitoring invisible corrosion in concrete using a combination of wave propagation techniques	Cement and Concrete Composites	Ashutosh Sharma, Shruti Sharma, Sandeep Sharma, Abhijit Mukherjee	
81	Investigation of corrosion in corroding reinforced concrete beams using active and passive techniques	Construction And Building Materials	Ashutosh Sharma, Shruti Sharma, Sandeep Sharma, Abhijit Mukherjee	
82	Monitoring Early-Age Setting of Silica Fume Concrete Using	Construction And Building Materials	Nikita Bhalla, Sandeep Sharma, Shruti Sharma,	

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	Wave Propagation Techniques		Rafat Siddique	
83	Assessment of non-polynomial shear deformation theories for thermo-mechanical analysis of laminated composite plates	STEEL AND COMPOSITE STRUCTURES 27 (6), 761-775	YS Joshan, N Grover, BN Singh	
84	Adaptive ball drop algorithm for toolpath generation of axisymmetric triangulated parts to eliminate overcutting	Int J Adv Manuf Technol (2018). https://doi.org/10.1007/s00170-018-2507-7	Ajayinder Singh Jawanda, Ajay Batish, Sanjeev Bedi	