

Publications

Journals

1. Ashish Soni, Murugan Vellaisamy, Sonu Kumar Gupta, **Jitendra Kumar Katiyar**, Dhinakaran Veeman, Influence of Applied Loads and Sliding Speeds on Tribological Behaviour of 3D Printed Banana Peel Powder Reinforced Biocomposite, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 2024 (SCIE, IF- 2), 2024. (Accepted)
2. Ashish Soni, Prabhat Chand Yadav, Dhinakaran Veeman, **Jitendra Kumar Katiyar**, Fruit waste-derived hybrid biofillers as a potential reinforcement in 3D printed biocomposites for building construction applications, *Journal of Manufacturing Processes*, 2025 (SCIE, IF-6.1). (Accepted)
3. Vineet Kumar, Nikhil M. Kulkarni, Nitesh Kumar Sinha, Gopal Ji, **Jitendra Kumar Katiyar** and Manvandra Kumar Singh, Physico-tribomechanical Performance of Zn-Al/ZrB₂ in-situ Composite for Sustainable Automotive Applications, *Tribology International* 206, 2025, 110591 (SCI, IF-6.1). <https://doi.org/10.1016/j.triboint.2025.110591>.
4. Deepak K Prajapati, Marcus Bjorling, **Jitendra Kumar Katiyar**, The Influence of Non-Gaussian Surface Topography, and Contact Models on Mixed-Lubrication Parameters for Water-Lubricated Journal Bearings (WLJB), *Journal of Tribology*, 2025, (SCI, IF- 2.2) <https://doi.org/10.1115/1.4067836>.
5. Dhinakaran Veeman, Murugan Vellaisamy, Pradeep Castro Ponnusamy, Dhushyanth Palanisamy Subathra, **Jitendra Kumar Katiyar**, Impact of Process Parameters on Hardness of Melt Fabricated PA6 Carbon Fiber-Reinforced Composites and Prediction of Properties Using Machine Learning, *Journal of Materials Engineering and Performance*, 2025 (SCIE, IF-2.2) (Accepted)
6. A Eakambaram, M. A. Sai Balaji, S.Venkatachalam, **Jitendra Kumar Katiyar**, S. Rajkumar, Sivakumar Solaiachari, Development of Cost-Effective, High-Performance Ceramic-Metallic Brake Pads for Agricultural Tractors, *Tribology - Materials, Surfaces & Interfaces*, 2025 (ESCI, IF-1.6) (<https://doi.org/10.1177/17515831251315285>)
7. C. Pownraj, A. Karthik, Prabhu B, S. Suresh, K.V. Yathish, **Jitendra Kumar Katiyar** and A. Valan Arasu, Effect of Cu MOF based functional catalysts on cracking and adsorption of bio-oil compounds via thermo-catalytic pyrolysis: A net zero emission scenario, *Fuel*, 383, 133871 2025 (SCI, IF-7.4) (<https://doi.org/10.1016/j.fuel.2024.133871>)
8. Pravesh Ravi, **Jitendra Kumar Katiyar** and Shravan Kumar C, Physico-tribocorrosion Performance of Epoxy/MoS₂ Nanocomposite Coating, *Materials Today Communication*, 2025, (SCIE, IF-3.7) (<https://doi.org/10.1016/j.mtcomm.2024.111219>)
9. Seenath, Amal A., M. M. A. Baig, **Jitendra Kumar Katiyar**, and Abdul Samad Mohammed. A Comprehensive Review on the Tribological Evaluation of Polyether Ether Ketone Pristine and Composite Coatings, *Polymers* 16, 21: 2994, 2024 (SCIE, IF-4.7) (<https://doi.org/10.3390/polym16212994>)
10. Vineet Kumar, Gaurav Gautam, Manvandra Kumar Singh, Gopal Ji, **Jitendra Kumar Katiyar**, Sunil Mohan, Anita Mohan, Prediction of Frictional Behaviour through Regression Equations: A Statistical Modelling Approach Validated with Machine

- Learning, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 2024 (SCIE, IF- 2) (<https://doi.org/10.1177/13506501241300906>)
11. Jafrey Danie James D, Karthik Pandiyan G, Thanga Aruna M, **Jitendra Kumar Katiyar**, Dry Sliding Wear Behaviour of AA6082/BN/MoS₂ Hybrid Metal Matrix Composites Synthesized using Stir Casting Process, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 2024 (SCIE, IF- 2). (Accepted)
 12. T. Satish Kumar, K. Krishna Kumar, Abhijit Bhowmik, Biplab Bhattacharjee, **Jitendra Kumar Katiyar**, Microstructural, Mechanical and Wear Properties of Ultrasonic Assisted Stir Casted A356 Alloy/AlN Composite, *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science* 2023 (SCI, IF- 2). (Accepted)
 13. Sudheer Reddy Beyanagari, Arulvel Sivalingam, Jayakrishna Kandasamy, **Jitendra Kumar Katiyar**, Influence of 2D Solid Lubricants on Mechanical and Tribological Behaviour of Al 7XXX Series Metal Matrix Composites - A Comprehensive Review, *Tribology – Materials, Surfaces & Interfaces*, 2024. (ESCI, IF-1.3). (<https://doi.org/10.1177/17515831241265341>)
 14. H. Jagadeesh, Prashanth Banakar, P. Sampathkumara, R.R.N. Sailaja and **Jitendra Kumar Katiyar**, Influence of Varying Concentration of Matrix and Fiber on Mechanical Properties of Bi-directional Carbon Fiber Reinforced Polymer Composite, *Journal of Reinforced Plastics and Composites*, 2024 (SCIE, IF-3.1) (<https://doi.org/10.1177/07316844241263188>)
 15. C. Pownraj, Prabhu B, **Jitendra Kumar Katiyar**, S. Suresh, A. Valan Arasu, Cu MOF-biocarbon functional catalysts as adsorbent for oxygen-linked carbon capture via thermocatalytic pyrolysis: A low-carbon fuel synthesis strategy, *International Journal of Thermofluids*, 23, 100746, 2024. (Scopus, CS-10.2) (<https://doi.org/10.1016/j.ijft.2024.100746>)
 16. Jashanpreet Singh, Simranjit Singh, Hitesh Vasudev, **Jitendra Kumar Katiyar**, Artificial Neural Network Model for Wear Characteristic Analysis of WC-10Co₄Cr and Stellite 6 Thermal Spray Coatings, *Tribology International*, 199, 109924, 2024 (SCI, IF-6.2) (<https://doi.org/10.1016/j.triboint.2024.109924>)
 17. Rajhans Meena, Abdul Wahab Hashmi, Faiz Iqbal, Shadab Ahmad, Chander Prakash, **Jitendra Kumar Katiyar**, Harlal Singh Mali and Anoj Meena, Optimizing Surface Finish in FDM-Printed Polycarbonate Spur Gears through Abrasive Flow Finishing: Insights from Physics and Material Science Perspectives, *Physica Scripta*, 99 (8), 085004, 2024. (SCIE, IF-2.9) (<https://doi.org/10.1088/1402-4896/ad5a52>)
 18. Vineet Dubey, Kuldeep Pandey, Harish Kumar, Pawan Kumar Arora, **Jitendra Kumar Katiyar**, Anuj Kumar Sharma, Tribological Behaviour of AISI 304 Steel on Electrodeposited Hard Chrome Coated Steel, *EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy*, 11(02), 1210-1215, 2024. (Scopus, SNIP: 1.5)
 19. Muhammad Ahmed Nazir Shaikh, Pravesh Ravi, NR Nik Roselina, **Jitendra Kumar Katiyar**, Tribo-Corrosion and Mechanical Performance of Electro-deposited Nano-Composite h-BN/Epoxy Coating, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 238 (10):1222-1233, 2024 (SCIE, IF- 2). (<https://doi.org/10.1177/13506501241257560>)

20. Guru Sewak Kesharwani, Kiran Kumar Billa, Juhi Verma, Shrwan Kumar Garg, **Jitendra Kumar Katiyar**, Sanjeev Kumar, Influence of Tool Velocity Ratio on Force-Torque and Mechanical Properties of Friction Stir Welded 2050-T84 Al-Li Alloy Plates, *Physica Scripta*, 99(7), 075008, 2024. (SCIE, IF-2.9). (<https://doi.org/10.1088/1402-4896/ad505f>)
21. Amit Kumar, Chikesh Ranjan, Kaushik Kumar, M Harinatha Reddy, B Sridhar Babu, **Jitendra Kumar Katiyar**, State-of-the-art on Advancements in Carbon–Phenolic and Carbon–Elastomeric Ablatives, *Polymers*, 16, 1461, 2024 (SCIE, IF-5.0) (<https://doi.org/10.3390/polym16111461>)
22. Abhijit Bhowmik, Biplab Bhattacharjee, Abayomi Adewale Akinwande, Jayant Giri, P. Satish Kumar, **Jitendra Kumar Katiyar**, Optimization of Tribological Performance of TiB₂ Reinforced Al6063 Composite using Grey-Fuzzy Tool, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 2024 (SCIE, IF- 2). (<https://doi.org/10.1177/13506501241246845>)
23. Pravesh Ravi, A Eakambaram and **Jitendra Kumar Katiyar**, Investigation of Physical, Mechanical, Tribological and Biodegradable Properties of Hybrid Natural Fiber Reinforced Polymer Composite, *Tribology – Materials, Surfaces & Interfaces*, 2024. (ESCI, IF-1.3). (<https://doi.org/10.1177/17515831241241945>)
24. Noor Syahadah Yussoff, Nik Roselina Nik Roseley, N. H. Saad, A. R. Bushroa and **Jitendra Kumar Katiyar**, Effect of substrate’s surface roughness on corrosion and wear rate of Ni-GO nanocomposite coating, *Journal of Mechanical Engineering and Sciences*, 18(1), 9898-9908, 2024. <https://doi.org/10.15282/jmes.18.1.2024.8.0783> (ESCI, IF-1.1)
25. A Baskar, M A Sai Balaji, **Jitendra Kumar Katiyar**, Bharti Nagpal, J Rajesh Babu, New Population-Based Simple Algorithms for Solving Global Optimization Problems, *International Journal of Mathematics in Operational Research*, 27 (2) 199-222, 2024. <https://doi.org/10.1504/IJMOR.2024.137039> (Scopus).
26. Kavita R. Shah, Atindra Shukla, Nimesh Chandra S. Patel, **Jitendra Kumar Katiyar**, Effect of Ferrofluid Lubrication on Tribological Performance of Metal Tribopairs, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 2024 (SCIE, IF- 2) (<https://doi.org/10.1177/13506501241227093>)
27. P. Balaji, B. Surya Rajan, K. Sathickbasha, K. **Jitendra Kumar Katiyar**, P. Baskara Sethupathi, Asrar Ahmed, A Comparative Study of Original Equipment Manufacturer Brake Pads Using Tribological Testing and Hybrid Ranking for Enhanced Decision Making and Cost Effectiveness, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 2024 (SCIE, IF- 2). (<https://doi.org/10.1177/13506501231223593>)
28. H. Jagadeesh, Prashanth Banakar, P. Sampathkumara, R.R.N. Sailaja and **Jitendra Kumar Katiyar**, Influence of Nanographene Filler on Sliding and Abrasive Wear Behaviour of Bi-directional Carbon Fiber Reinforced Epoxy Composites, *Tribology International*, 192, 109196, 2024 (SCI, IF-6.2) (<https://doi.org/10.1016/j.triboint.2023.109196>)
29. V Dhinakaran, P M Bupathi RAM, M. Ravichandran, **Jitendra Kumar Katiyar**, Tribological, Mechanical and Metallurgical Performance of Natural Fiber-reinforced Composites: A Comprehensive Review, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 238(3), 243-259 2024 (SCIE, IF-2). (<https://doi.org/10.1177/13506501231211625>)

30. Vineet Dubey, Kuldeep Pandey, Harish Kumar, Pawan Kumar Arora, **Jitendra Kumar Katiyar**, Anuj Kumar Sharma, Tribological Behaviour of AISI 304 Steel on Electrodeposited Hard Chrome Coated Steel, *EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy*, 11(2), 1210-1215, 2024. (Scopus)
31. Rahul Das, Sanjeev Kumar, **Jitendra Kumar Katiyar**, Smrity Choudhury, Barnik Saha Roy, State-of-the-art on Microstructural, Mechanical and Tribological Properties of Friction Stir Processed Aluminium 2xxx series Alloy, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 2023 (SCIE, IF-2.4) (<https://doi.org/10.1177/09544089231215223>)
32. Beyza Gavcar, Emir Halit Sumer, Binnur Sagbas, **Jitendra Kumar Katiyar**, Effect of Build Orientation on the Green Tribological Properties of Multi Jet Fusion Manufactured PA12 Parts, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 237(12), 2212-2223 2023 (SCIE, IF- 2). (<https://doi.org/10.1177/13506501231209396>)
33. C. Pownraj, A. Karthick, S. Suresh, A. Valan Arasu, and **Jitendra Kumar Katiyar**, Investigation of tribological properties and thermal conductivity of inter-mixed AYSZ nanoceramic composite/SAE20W40 nanolubricant, *Journal of Thermal Analysis and Calorimetry*, 148(22), 12411-12420, 2023 (SCI, IF-4.4) (<https://doi.org/10.1007/s10973-023-12606-2>)
34. Jitendra Kumar Sahu, Ranjeet Kumar Sahu, **Jitendra Kumar Katiyar**, P Sai Kiran, Optimization of process parameters for dimensional stability in FDM, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 2023 (SCIE, IF-2.4) (<https://doi.org/10.1177/09544089231206800>)
35. Ankit Samal, Sanjeev Kumar, Prasanna Kumar S Mural, Manish Bhargava, Sankar Narayan Das, **Jitendra Kumar Katiyar**, A Critical Review on Different Properties of Natural Fiber Reinforced Composites, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 2023 (SCIE, IF-2.4) (<https://doi.org/10.1177/09544089231202915>)
36. Deepak Prajapati, **Jitendra K Katiyar**, Chander Prakash, Machine Learning Approach for the Prediction of Mixed lubrication Parameters for Different Surface Topography of Rough Non-Conformal Contacts, *Industrial Lubrication and Tribology*, 2023. (SCIE, IF-1.6) (<https://doi.org/10.1108/ILT-04-2023-0121>)
37. Deepak K. Prajapati, **Jitendra Kumar Katiyar**, Chander Prakash, Determination of Friction Coefficient for Water-Lubricated Journal Bearing Considering Rough Surface EHL Contacts, *International Journal on Interactive Design and Manufacturing*, 2023. (SCIE, IF-2.1) (<https://doi.org/10.1007/s12008-023-01466-7>)
38. Pankaj Kumar, Santosh Kumar Singh and **Jitendra Kumar Katiyar**, Study of flow characteristics over heated plain and dual-step Cylinder, *International Journal of Fluid Mechanics Research*, 50(4), 21-32, 2023 (SCIE) (IF-1.1) (<https://doi.org/10.1615/InterJFluidMechRes.2023047696>)
39. Deepak Prajapati, Dilshad Ahmad, **Jitendra K Katiyar**, Chander Prakash, Rafic M. Ajaj, A Numerical Study on the Impact of Lubricant Rheology and Surface Topography on Heavily Loaded Non-Conformal Contacts, *Surface Topography: Metrology and Properties*, 2023 (SCIE, IF-2.7) (<https://doi.org/10.1088/2051-672X/ace6c2>)

40. H. Jagadeesh, Prashanth Banakar, P. Sampathkumaran, R.R.N. Sailaja and **Jitendra Kumar Katiyar**, Influence of Nano Graphene Addition on Mechanical Properties of Bi-directional Carbon Fabric Based Epoxy Composites, *Journal of Elastomers and Plastics*, 55(6), 9537-958, 2023, (SCIE, IF-1.7) (<https://doi.org/10.1177/00952443231189851>)
41. Pawan Kumar Soni, Arun K. Singh, **Jitendra K. Katiyar**, Experiments and Prediction of Hold Time Dependent Static Friction of a Wet Granular Layer, *Tribology Letters*, 71: 75, 2023, (SCI, IF-3.2) (<https://doi.org/10.1007/s11249-023-01747-y>)
42. Sanjeev Kumar, Ashish Soni, **Jitendra Kumar Katiyar**, Sachin Kumar, Barnik Saha Roy, Influence of Tool Pin Profiles on Waviness and Natural Frequency during Friction Stir Welding of Al-Li Alloys Plates, *Surface Topography: Metrology and Properties*, 11, 025015, 2023 (SCIE, IF-2.7) (<https://doi.org/10.1088/2051-672X/acd5ea>)
43. Dhinakaran Veeman, **Jitendra Kumar Katiyar**, Alessandro Ruggiero, Tribo-mechanical Performance of Brake Composite Material: A Comprehensive Review, *Tribology – Materials, Surfaces & Interfaces*, 17(4), 271-294, 2023. (ESCI, IF-1.3) (<https://doi.org/10.1080/17515831.2023.2211819>)
44. Sanjeev Kumar, **Jitendra Kumar Katiyar**, Guru Sewak Kesharwani, Barnik Saha Roy, Microstructure, Mechanical, and Force-torque Generation Properties of Friction Stir Welded Third Generation Al/Li Alloy at Higher Traverse Speed, *Materials Today Communications*, 35, 106084, 2023 (SCI, IF-3.8) (<https://doi.org/10.1016/j.mtcomm.2023.106084>)
45. M. A. Sai Balaji, **Jitendra Kumar Katiyar**, Eakambaram A, Baskara Sethupathi P, J. Kamalakannan, and A. Baskar, Comparative Study of Sintered and Composite Brake Pad for Wind Turbine Applications, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 237(7), 1430-1445, 2023 (SCIE, IF- 2). (<https://doi.org/10.1177/13506501231159188>)
46. **Jitendra Kumar Katiyar** and TVVLN Rao, Sustainable Tribology for Reliability and Efficiency, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 237(8), 1670-1679, 2023 (SCIE, IF- 2). (<https://doi.org/10.1177/13506501231169548>)
47. Satya dev M, Shanmuka Srinivas M, **Jitendra Kumar Katiyar**, Lakshmana Rao B, Ravi Sankar M, State of Art on Hybrid Assisted Machining Processes of Nickel-Based Superalloys, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 2023 (SCIE, IF-2.4) (<https://doi.org/10.1177/09544089231158899>)
48. Sanjeev Kumar, Manoj Kumar Triveni, **Jitendra Kumar Katiyar**, Tameshwer Nath, Barnik Saha Roy, Prediction of Heat Generation Effect on Force Torque and Mechanical Properties at Varying Tool Rotational Speed in Friction Stir Welding using Artificial Neural Network, *Proceedings of the Institution of Mechanical Engineers Part C: Journal of Mechanical Engineering Science*. 237(19), 4495-4514 2023 (SCI, IF-2) (<https://doi.org/10.1177/09544062231155737>)
49. Avinash Kumar, Anuj Kumar Sharma, **Jitendra Kumar Katiyar**, State of Art on Sustainable Machining of Different Materials using Nano Minimum Quality Lubrication (NMQL), *Lubricants*, 11(2), 64, 2023, <https://doi.org/10.3390/lubricants11020064> (SCIE, IF-3.5)

50. Sanjeev Kumar, **Jitendra Kumar Katiyar**, Barnik Saha Roy, Influence of Tool Tilt Angle on Physical, Thermal, and Mechanical Properties of Friction Stir Welded Al-Cu-Li Alloys, *Materials Today Communications*, 34, 105348, 2023 (SCI, IF-3.8). (<https://doi.org/10.1016/j.mtcomm.2023.105348>)
51. Pawan Kumar Soni, Arun K. Singh, **Jitendra K. Katiyar**, Shear Rate Dependent Static Friction of a Soft and Hard Solid Interface, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 237(4), 992-999, 2023 (SCIE, IF-2) (<https://doi.org/10.1177/13506501221147897>)
52. M. Sreekumar, S. Purushothaman, M. S. Srinivas, **J. K. Katiyar** and M. R. Sankar, A review of additives in abrasive water jet machining and their performance, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 237(4), 964-978, 2023 (SCIE, IF-2) (<https://doi.org/10.1177/13506501221144722>)
53. Anwaruddin Siddiqui Mohammed, Srihari Dodla, **Jitendra Kumar Katiyar**, Mohammed Abdul Samad, Prediction of Friction Coefficient of SU-8 and Its Composite Coatings using Machine Learning Techniques, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 237(4), 943-953, 2023. (SCIE, IF-2) (<https://doi.org/10.1177/13506501221138382>)
54. M. A. Sai Balaji, **Jitendra Kumar Katiyar**, A. Eakambaram, P. Baskara Setupathi, State of the Art on Challenges for Friction Material Manufacturers – Raw Materials, Regulations, Environmental, and NVH Aspects, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 237(4), 926-942, 2022. (SCIE, IF-2) (<https://doi.org/10.1177/13506501221135071>)
55. **Jitendra Kumar Katiyar**, TVVLN Rao, Mir Irfan Ul Haq, Mohd Fadzli Bin Abdollah, Guest editorial: Tribology for sustainability & reliability, *Industrial Lubrication and Tribology*, 74 (8), 913, 2022. <https://doi.org/10.1108/ILT-10-2022-548> (SCIE, IF-1.6)
56. Alok Ranjan, Leeladhar Nagdeve, Harish Kumar, Abhishek Mishra, **Jitendra Kumar Katiyar**, Tribological Behaviour of Stir Casted Hybrid Al-Metal Matrix Composites Using Taguchi Technique, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 237(4), 894-910, 2023 (SCIE, IF-2) (<https://doi.org/10.1177/13506501221128466>)
57. Rishish Mishra, Vineet Dubey, Rabesh Kumar Singh, Anuj Kumar Sharma and **Jitendra Kumar Katiyar**, A novel conjugate heat transfer (CHT) approach to determine the temperature distribution in single point cutting tool under different conditions, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 2022 (SCIE, IF-2.4) (<https://doi.org/10.1177/09544089221125633>)
58. Avinash Kumar, Anuj Kumar Sharma, T V K Gupta and **Jitendra Kumar Katiyar**, Influence of h-BN Additives Nanocutting Fluid on Machining of AA6061-T6 Alloy using Minimum Quality Lubrication, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 2022 (SCIE, IF-2.4) (<https://doi.org/10.1177/09544089221110980>)
59. K V J Bhargav, PS Balaji1, Ranjeet Kumar Sahu and **Jitendra Kumar Katiyar**, Multi-response optimization and effect of tool rotation on micromachining of PMMA using an in-house developed μ -ECDM system, *CIRP Journal of Manufacturing Science and*

- Technology*. 38, 473-490, 2022, <https://doi.org/10.1016/j.cirpj.2022.05.020> (SCIE, IF- 4.8).
60. Deepak Prajapati, P Ramkumar and **Jitendra Kumar Katiyar**, Research on Tribological Performance of Piston Ring/Liner Conjunction Considering Non-Gaussian Roughness and Cavitation, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 237(4), 732-745, 2023 (SCIE, IF- 2) (<https://doi.org/10.1177/13506501221108126>)
 61. K V J Bhargav, PS Balaji, Ranjeet Kumar Sahu and **Jitendra Kumar Katiyar**, Exemplary Approach using Tool Rotation-Assisted μ -ECDM for CFRP Composites Machining, *Materials and Manufacturing Process*, 38(3), 271-283, 2023 (<https://doi.org/10.1080/10426914.2022.2072879>) (SCI, IF- 4.8).
 62. Nikhil Thawari, Chaitanya Gullipalli, Aayush Chandak, **Jitendra Kumar Katiyar** and T V K Gupta, In-process monitoring of distortion and temperature in multi-layer laser cladding of Stellite 6 and Inconel 718 alloys, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*. 237(1-2), 3-15, 2022 (<https://doi.org/10.1177/09544054221092937>) (SCIE, IF- 2.6)
 63. **Jitendra Kumar Katiyar**, Tomoko Hirayama and T V V L N Rao, Influence of engineering tribology on society, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 236 (9), 1721-1722, 2022 (SCIE, IF- 2), <https://doi.org/10.1177/13506501221093441>
 64. **Jitendra Kumar Katiyar** and T V V L N Rao, Impact of Tribology on society, *Tribology – Materials, Surfaces & Interfaces*, 16 (1), 1, 2022. <https://doi.org/10.1080/17515831.2022.2022972> (ESCI, IF-1.3).
 65. M. Ravichandran, S. V. Alagarsamy, V. Dhinakaran, M. Abdul Samad and **Jitendra Kumar Katiyar**, Optimization of Tribological Process Parameters of Titanium Carbide Reinforced Copper Matrix Composites, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 236 (9), 1737–1751, 2022 (SCIE, IF- 2) <https://doi.org/10.1177/13506501221085055>
 66. Sanjeev Kumar, **Jitendra Kumar Katiyar**, Uttam Acharya, Subash Chandra Saha and Barnik Saha Roy, Influence of Tool Rotational Speed on Microstructure and Mechanical Properties of Al-Li Alloy using Friction Stir Welding, *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 236(5), 2106-2117, 2022 <https://doi.org/10.1177/09544089221080823> (SCIE, IF-2.4)
 67. Vaibhav Singh, Anuj Kumar Sharma, Ranjeet Kumar Sahu and **Jitendra Kumar Katiyar**, State of the Art on Sustainable Manufacturing using Mono/Hybrid Nano-cutting Fluids with Minimum Quantity Lubrication, *Materials and Manufacturing Process*, 37(6), 603-639, 2022 <https://doi.org/10.1080/10426914.2022.2032147> (SCI, IF- 4.8).
 68. **Jitendra Kumar Katiyar** and M. Abdul Samad, Physical, tribological and mechanical properties of polymer composite coating on silicon wafer, *Tribology International*. 165, 107307, 2022 <https://doi.org/10.1016/j.triboint.2021.107307> (SCI, IF-6.2)
 69. Satish Chinchankar, **Jitendra Kumar Katiyar**, Omkar Manav, Multi-objective optimization of turning of titanium alloy under minimum quantity lubrication, *Journal of Optimization in Industrial Engineering*. 15(1), 243-260, 2022. (DOI: [10.22094/JOIE.2021.1937743.1886](https://doi.org/10.22094/JOIE.2021.1937743.1886)) (Scopus, SNIP-0.536)

70. Tushar Dhote, Rahul A Mali, **Jitendra Kumar Katiyar**, T V K Gupta, Multi-Response Optimization of cutting parameters in MQL assisted Turning of Haynes 25 alloy with Taguchi based Grey Relational Analysis, *Journal of Engineering Research*, 10(2 B), 142–157, 2022. (SCIE, IF-1.325) (<https://doi.org/10.36909/jer.9877>)
71. Akshay R. Govande, **Jitendra Kumar Katiyar**, B. Ratna Sunil, Ravikumar Dumpala, Effect of heat treatment environment on the structural characteristics and microhardness of HVOF sprayed WC-17Co coating, *Material Science and Engineering Technology*. 52(12), 1346-1354, 2021 <https://doi.org/10.1002/mawe.202100143> (SCI, IF-1.1)
72. Nitish Sinha, Arun K. Singh, Vinit Gupta, **Jitendra Kumar Katiyar**, Adhesive and Normal Stress Dependent Dynamic Friction of a Gelatin Hydrogel, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 236 (9), 1789–1793, 2021 (SCIE, IF- 2) (<https://doi.org/10.1177/13506501211044650>)
73. M. Ravichandran, G. Veerappan, V. Dhinakaran, **Jitendra Kumar Katiyar**, Optimization of Tribo-mechanical Properties of Boron Carbide Reinforced Magnesium Metal Matrix Composite, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 236 (9), 1814–1826, 2021 (SCIE, IF- 2) (<https://doi.org/10.1177/13506501211030070>)
74. Neha Mohanta, Rabesh Kumar Singh, **Jitendra Kumar Katiyar**, Anuj Kumar Sharma, A Novel Fluid-Structure Interaction (FSI) Modeling Approach to Predict the Temperature Distribution in Single Point Cutting Tool for Condition Monitoring During Turning Process, *Arabian Journal for Science & Engineering*. 47, 7995–8007, 2021 (SCIE, IF-2.9) (<https://doi.org/10.1007/s13369-021-05861-8>)
75. Shivani Chauhan, **Jitendra Kumar Katiyar** and Vinay Kumar Patel, Physico-tribo-mechanical performance and multi-criteria ranking optimization of novel Eriphorium-comosum/polyester composites, *International Journal of Computer Aided Engineering and Technology*, 15(4), 538-552, 2021. <https://doi.org/10.1504/IJCAET.2021.118474> (Scopus, Cite Score-0.6)
76. Nikhil Thawari, Chaitanya Gullipalli, **Jitendra Kumar Katiyar**, T V K Gupta, Effect of Multi-Layer Laser Cladding of Stellite 6 and Inconel 718 Materials on Clad Geometry, Microstructure Evolution and Mechanical Properties, *Materials Today Communications*, 28, 102604. 2021 <https://doi.org/10.1016/j.mtcomm.2021.102604> (SCI, IF-3.8).
77. Seshaiiah Turaka, K. Vijaya Kumar Reddy, R. K. Sahu and **Jitendra Kumar Katiyar**, Mechanical Properties of MWCNTs and Graphene Nanoparticles Modified GFRP Nanocomposite, *Bulletin of Materials Science* 44 (3), 194, 2021 <https://doi.org/10.1007/s12034-021-02444-z> (SCIE, IF-1.8).
78. Vaibhav Singh, Anuj Kumar Sharma, Ranjeet Kumar Sahu and **Jitendra Kumar Katiyar**, Novel Application of Graphite-Talc Hybrid Nanoparticle Enriched Cutting Fluid in Turning Operation, *Journal of Manufacturing Processes*, 62, 378-387, 2021. (SCI, IF-6.2).
79. Nikhil Thawari, Chaitanya Gullipalli, **Jitendra Kumar Katiyar** and T V K Gupta, Influence of Buffer layer on Surface and Tribo-mechanical properties of Laser Cladded Stellite 6, *Materials Science & Engineering Part B*, 263, 114799, 2021. <https://doi.org/10.1016/j.mseb.2020.114799> (SCI, IF- 3.6)

80. T R Gupta, Sarabjeet Singh Sidhu, **Jitendra Kumar Katiyar** and H. S. Payal, Measurements of Lattice Strain in Cold-Rolled CR4 Steel Sheets Using X-Ray Diffraction, *Materials Science & Engineering Part B*, 264, 114930. (SCI, IF- 3.6), 2021, <https://doi.org/10.1016/j.mseb.2020.114930>
81. Vaibhav Singh, P Raja, **Jitendra Kumar Katiyar** and P Ramkumar, Effect of Friction Modifiers Compositions on Tribological Properties of Cu-Sn Alloy/Al₂O₃ Brake Composite Material, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology* 235 (8), 1541-1550, 2021. <https://doi.org/10.1177/1350650120974132> (SCIE, IF- 2)
82. Jangili Nithin Kumar, Devaiah Malkapuram, **Jitendra Kumar Katiyar**, Evolution of Phenolic Formaldehyde Based Hybrid Polymer Matrix Composite (PMC) Reinforced with Silicon Carbide and Fly Ash, *SAE Technical Paper*, 2021-01-0358, 2021, <https://doi.org/10.4271/2021-01-0358>.
83. Vinay Kumar Patel, Amit Joshi, Sanjeev Kumar, Anand Singh Rathaur, Jitendra Kumar Katiyar, Molecular combustion properties of nanoscale aluminum and its energetic composites- A Short Review, *ACS Omega*, 6 (1), 17–27, 2020. <https://doi.org/10.1021/acsomega.0c03387> (SCI, IF-4.1).
84. Anand Singh Rathaur, Vinay Kumar Patel, and **Jitendra Kumar Katiyar**, Tribo-mechanical Properties of Graphite/Talc Modified Polymer Composite Bearing Balls, *Material Research Express*, 7 (1), 015305, 2020. (SCIE, IF- 2.3)
85. **Jitendra K. Katiyar**, Sujeet K. Sinha, Tomoko Hirayama and Arvind Kumar, Tribological Analysis of Tip-Cantilever made of SU-8/talc/PFPE Composite, *Tribology – Materials, Surfaces & Interfaces*, 14 (2), 92-101, 2020. <https://doi.org/10.1080/17515831.2019.1675339> (ESCI, IF-1.3)
86. Amit Joshi, K K S Mer, **Jitendra K. Katiyar**, Vinay Kumar Patel, Effect of azobis-isobutyronitrile propellant loading and nanoscaling of CuO on combustion performance of CuO/Al nanoenergetic materials, *Material Research Express*, 6 (11), 115062, 2019. (SCIE, IF- 2.3)
87. Arvind Singh Negi, **Jitendra Kumar Katiyar**, Sandeep Kumar, Nitin Kumar, Vinay Kumar Patel, Physicomechanical and abrasive wear properties of hemp/Kevlar/carbon reinforced hybrid epoxy composites, *Material Research Express*, 6 (11), 115304 2019. (SCIE, IF- 2.3)
88. Shubrajit Bhaumik, Viorel Paleu, Rajan Pathak, Rishabh Maggirwar, **Jitendra Kumar Katiyar**, Anuj Kumar Shrma, Tribological investigation of r-GO additived biodegradable cashew nut shells liquid as an alternative industry lubricant, *Tribology International*, 135, 500-509, 2019. <https://doi.org/10.1016/j.triboint.2019.03.007> (SCI, IF- 6.2)
89. **Jitendra K Katiyar** and Vinay Kumar Patel, Physico-Tribo-Mechanical and Adhesion Behaviour of Plasam Treated Steel and It's Alloy: A Critical Review, *Review of Adhesion and Adhesive*. 7 (1), 1-32, 2019. (ESCI)
90. Anand Singh Rathaur, **Jitendra K Katiyar** and Vinay Kumar Patel, Thermo-mechanical and tribological properties of SU-8/h-BN Composite with SN150/Perflouropolyether as filler, *Friction*, 8 (1), 151-163, 2019 <https://doi.org/10.1007/s40544-019-0257-7> (SCIE, IF- 6.8)

91. Anand Singh Rathaur, **Jitendra K Katiyar**, Vinay Kumar Patel, Shubrajit Bhaumik, and Anuj K Sharma, A Comparative Study of Tribological and Mechanical Properties of Composite Polymer Coatings on Bearing Steel, *International Journal of Surface Science and Engineering*, 12 (5/6), 379-401, 2018. <https://doi.org/10.1504/IJSURFSE.2018.096744> (SCIE, IF- 0.8)
92. Vinay Kumar Patel, Shivani Chauhan and **Jitendra K Katiyar**, Physico-mechanical and wear properties of novel sustainable sour-weed fiber reinforced polyester composites, *Materials Research Express*, 5 (4), 045310, 2018. (SCIE, IF- 2.3)
93. **Jitendra K Katiyar**, Anuj Kumar Shrama and Basant Pandey, Synthesis of Iron-Copper Alloy using Electrical Discharge Machining (EDM), *Materials and Manufacturing Process*, 33 (14), 1531-1538, 2018. <https://doi.org/10.1080/10426914.2018.1424997> (SCI, IF- 4.8)
94. Anuj K Sharma, **Jitendra K Katiyar**, Shubrajit Bhaumik and Sandipan Roy, Influence of Alumina/MWCNT Hybrid Nanoparticle Additives on Tribological Properties of lubricant in Turning Operation, *Friction*, 7 (2), 153-168, 2018. <https://doi.org/10.1007/s40544-018-0199-5> (SCIE, IF- 6.8)
95. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, Lubrication Mechanism of SU-8/Talc/PFPE Composite, *Tribology Letters*, 65 (3) 84, 2017. <https://doi.org/10.1007/s11249-017-0863-3> (SCI, IF- 3.2)
96. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, In-situ Lubrication of SU-8/Talc Composite with Base Oil (SN150) and Perfluoropolyether, *Tribology Letters*, 64 (1), 5, 2016. <https://doi.org/10.1007/s11249-016-0736-1> (SCI, IF- 3.2)
97. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, Friction and Wear Durability study of SU-8 Composites with Talc and Graphite as Fillers, *Wear*, 362-363, 199-208, 2016. <https://doi.org/10.1016/j.wear.2016.06.011> (SCI, IF- 5)
98. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, Effect of Graphite Concentration on the Tribological and Mechanical Properties of filled SU-8, *Tribology Online* 11 (2), 152-158, 2016. <https://doi.org/10.2474/trol.11.152> (ESCI, IF-1.0)
99. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, Effects of Carbon Fillers on the Tribological and Mechanical Properties of an Epoxy Based polymer (SU-8), *Tribology – Materials, Surfaces & Interfaces*, 10 (1), 33-44, 2016. (ESCI, IF-1.3)
100. **Jitendra Kr. Katiyar**, Nikhil Yadav, Nitu Singh, Vijay Pal, Investigating the Effects of Varying Proportion of Wax Mixture on Surface Roughness and Optimization by Taguchi Method, *Applied Mechanics and Materials*, 110-116, 627-631, 2011. (Scopus)

Conference Papers (Indexed in Scopus)

1. R. G. Desavale, **Jitendra Kumar Katiyar** and Jagadeesha T, Vibrations Characteristics Analysis of Rotor-Bearings System due to Surface Defects Based on Response Sur-face Analysis in CNC Machines, 1st International Conference on Future Technologies 2020 (ICOFT 2020) in Manufacturing, Automation, Design and Energy, National Institute of Technology, Puducherry, Karaikal, 28-30 December 2020.
2. R. G. Desavale, **Jitendra Kumar Katiyar** and Jagadeesha T, The Diagnostic Analysis of the Rolling Element Bearings for Machine Tool applications using Dimension Theory, 1st International Conference on Future Technologies 2020 (ICOFT 2020) in Manufacturing,

Automation, Design and Energy, National Institute of Technology, Puducherry, Karaikal, 28-30 December 2020.

3. Jitendra Kumar Sahu, Ranjeet Kumar Sahu, **Jitendra Kumar Katiyar**, Study on improvement in geometrical dimensional accuracy of 3D printed parts, International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 2019), Indian Institute of Technology Indore, December 12-14, 2019.
4. A. Gowtham, G. Chaitanya, **Jitendra Kumar Katiyar**, Aayush Chandak, T. V. K. Gupta, Experimental Investigations on Laser Cladding of NiCrBsi+Wc Coating on SS410, Materials and Manufacturing Methods, (MMM- 2019), NIT Trichy, July 05-07, 2019.
5. Anand Singh Rathaur, **Jitendra Kumar Katiyar** and Vinay Kumar Patel, Experimental Analysis of Mechanical and Structural Properties of Hybrid Aluminium (7075) Matrix Composite Using Stir Casting Method, International Conference On Advances In Material And Manufacturing Engineering (ICAMME - 2019) March 15-17, 2019 School of Mechanical Engineering, KIIT Bhubaneswar.
6. Arnav Shil, Sandipan Roy, P. S. Balaji, **Jitendra Kumar Katiyar**, Sumit Pramanik and Anuj Kumar Sharma, Experimental Analysis of Mechanical Properties of Stir Casted Aluminium-Graphene Nanocomposites, International Conference On Advances In Material And Manufacturing Engineering (ICAMME - 2019) March 15-17, 2019 School of Mechanical Engineering, KIIT Bhubaneswar.
7. **Jitendra Kumar Katiyar**, Shubrajit Bhaumik, Ashwin Ashok and Anuj Kumar Sharma, Physiochemical Properties of Hexagonal Boron Nitride Blended Coconut Oil, TriboINDIA 2018, VJIT Mumbai, December 13-15, 2018.
8. Vimal Kumar, Pratima Verma, Onkar, Suraj Pratap Singh, **Jitendra K Katiyar**, Facility and Process Layout Analysis of a SME using Simulation: A Case Study of a Manufacturing Company, Proceedings of the 2016 International Conference on Industrial Engineering and Operations Management, Kuala Lumpur (Malaysia), March 8-10, 2016.

International/National Conference Papers/Symposium:

1. Pravesh Ravi, Avinash Kumar and **Jitendra Kumar Katiyar**, Tribo-Mechanical and Corrosive Investigation of Electroplated Nanocoating for Automobile Application, TriboIndia-2023: International Conference on Tribology, 5-7 October 2023, NIT Srinagar, J&K, India
2. Pravesh Ravi and **Jitendra Kumar Katiyar**, Wear and Corrosion Analysis of MoS₂/Epoxy Nanocomposite Coating, 29th Processing and Fabrication of Advanced Materials, Indian Institute of Technology Tirupati, 6-8 September 2023.
3. Muhamad Ahmed Nazir Shaikh, Pravesh Ravi, **Jitendra Kumar Katiyar**, Tribo-Corrosion and Mechanical Properties of Electro-deposited Hybrid Nano-Composite Coating for Under Water Applications, 29th Processing and Fabrication of Advanced Materials, Indian Institute of Technology Tirupati, 6-8 September 2023.
4. Muhammad Ahmed Nazir Shaikh, Pravesh Ravi and **Jitendra Kumar Katiyar**, Investigation of Polymer Nanocomposite Coating for Underwater Application, 4th International Conference on Tribology (TURKEYTRIB-2023), Maltepe-İstanbul-TURKEY, 25-27 May 2023.
5. T V V L N Rao, **Jitendra Kumar Katiyar**, Utpal Barman, Ahmad Majdi Abdul Rani, Alessandro Ruggiero and Patrick J Masset, An Overview of Biomimetic Surfaces in Tribology, 4th International Conference on Tribology (TURKEYTRIB-2023), Maltepe-İstanbul-TURKEY, 25-27 May 2023.

6. Nikhil Thawari, Chaitanya Gullipalli, Prayag Burad, **Jitendra Kumar Katiyar** and T V K Gupta, Parametric Investigations On Laser Cladded Stellite 6 Geometry Using Experimentation And Response Surface Methodology, 4th International Conference on Tribology (TURKEYTRIB-2023), Maltepe-İstanbul-TURKEY, 25-27 May 2023.
7. Pravesh Ravi and **Jitendra Kumar Katiyar**, Effect of Friction Modifiers on Tribological Properties of Al/TiC Alloy Brake Composite Material, 11th International Conference on Industrial Tribology (IndiaTrib-2022), Indian Institute of Technology Delhi, December 12-14, 2022.
8. Pravesh Ravi and **Jitendra Kumar Katiyar**, Synergistic Effect of TiO₂/h-BN blended Epoxy/acrylic Nanocomposite Coating on Mild Steel for Its Tribomechanical and Anticorrosion Behaviour, 11th International Conference on Industrial Tribology (IndiaTrib-2022), Indian Institute of Technology Delhi, December 12-14, 2022.
9. Pravesh Ravi and **Jitendra Kumar Katiyar**, Hexagonal Boron Nitrate Dispersed Resin Coating as an Efficient Anticorrosive and Wear Resistance Coating for Mechanical Application, 4th MYTRIBOS Symposium, UiTM Malaysia, 16 August 2022.
10. Vaibhav Singh, P. Ramkumar, Ranjeet Kumar Sahu and **Jitendra Kumar Katiyar**, Influence of Solid Fillers in Properties of Brake Materials, 10th International Conference on Industrial Tribology (IndiaTrib-2019), Indian Institute of Science Bangalore, December 01-04, 2019.
11. Amit Joshi, K K S Mer, **Jitendra K. Katiyar**, Vinay Kumar Patel, Effect of azobisisobutyronitrile propellant loading and nanoscaling of CuO on combustion performance of CuO/Al nanoenergetics, 5th International Conference on Nano-science and Nanotechnology (ICONN 2019), SRM Institute of Science and Technology, January 28-30, 2019.
12. Anand Singh Rathaur, **Jitendra Kumar Katiyar**, T V K Gupta and Vinay Kumar Patel, Performance Analysis of Fabricated Polymer Bearing Balls using Nano Fillers, 5th International Conference on Nano-science and Nanotechnology (ICONN 2019), SRM Institute of Science and Technology, January 28-30, 2019.
13. Sessaiah Turaka, K. Vijayakumarreddy, R. K. Sahu, **Jitendra Kumar Katiyar**, Tension-Tension axial fatigue behavior of glass fibre-reinforced epoxy composites enhanced with MWCNTs and Graphene, 5th International Conference on Nanoscience and Nanotechnology (ICONN 2019), SRM Institute of Science and Technology, January 28-30, 2019.
14. Vrajesh Lakhani, Gowtham Anandan, Ashok Chandak, **Jitendra Kumar Katiyar**, T V K Gupta, Experimental Investigations on Single and Multiple Layer Laser Cladding with Stellite 6, International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Panjab University, Hoshiyarpur, November 15- 17, 2018.
15. Shubrajit Bhaumik, **Jitendra K Katiyar** and Anuj Kumar Sharma, Tribological Analysis of Boron Nitride Nano Friction Modifiers Based Castor Oil, ASIATrib International Conference, Sarawak (Malaysia), September 17-20, 2018.
16. **Jitendra K Katiyar** and Shubrajit Bhaumik, Performance Analysis of SU-8 and Its Composite Coatings on Bearing Steel, 9th International Conference on Industrial Tribology (ICIT-2017), Vedic Village Resort, Kolkata, 6th - 9th December 2017.

17. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, Effect of Perfluoropolyether (PFPE) Concentration on the Tribological and Mechanical Properties of filled SU-8/Talc Composite, Proceedings of 6th World Tribology Congress 2017, Beijing (China) September 17-22, 2017.
18. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, Enhancement of Tribological Performance of Bearing Steel by Polymer Coating, Proceedings of 6th International and 27th All India Manufacturing Technology, Design and Research (AIMTDR) Conference, College of Engineering, Pune (India), December 16-18, 2016, pp 2047-2049.
19. Megha Verma, **Jitendra K Katiyar** and R. K. Gupta, Improvement of Tribological and Mechanical Performance of SU-8 by Boron Nitride as Filler, 6th International and 27th All India Manufacturing Technology, Design and Research (AIMTDR) Conference College of Engineering, Pune (India), December 16-18, 2016, pp 2102-2105.
20. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, The Effect of Sliding Speed on Fabricated SU-8/Talc/PFPE Composites, National Tribology Conference, Indian Institute of Technology BHU, Varanasi, India, December 8-10, 2016.
21. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, Effect of Graphite Concentration on the Tribological and Mechanical Properties of filled SU-8, International Tribology Conference, Tokyo University of Science, Tokyo (Japan), September 16-20, 2015, pp 657-658.
22. **Jitendra K Katiyar**, Sujeet K Sinha and Arvind Kumar, The Effect of Filler Materials on Mechanical and Tribological Properties of SU-8, NTC14, PES University Bangalore (India), December 15-17, 2014.
23. **Jitendra K Katiyar**, Novel Synthesis of Micro- & Nano- Granular Fe-Cu Alloy by Electric Discharge Machining, IITK Student Research Convention, IIT Kanpur (India), August 9-10, 2014.
24. **Jitendra K Katiyar** and Sujeet K Sinha, Surface Micromechanical & Tribological Properties of Different Coating on Glass Substrate, ASIATrib International Conference, Agra (India), February 17-20, 2014.
25. **Jitendra Kumar Katiyar**, Md. Ashif, Improvement in Strength of Al 713 in Sand Casting by Using Mechanical Vibration Method, International Conference on Innovation Technologies in Mechanical Engineering (ITME 2012), KIET Ghaziabad (India), August 17-18, 2012.
26. **Jitendra Kumar Katiyar**, Nikhil Yadav, Mayank Tripathi, Abhishek Shukla and Vikash Chandra, Optimization of the different process parameters by Taguchi Method affecting the surface roughness of A713 Alloy Castings produced by Investment casting process. International Conference on Innovation Technologies in Mechanical Engineering (ITME 2012), KIET Ghaziabad (India), August 17-18, 2012.
27. Nikhil Yadav, Nitu Singh, **Jitendra Kumar Katiyar**, Percentage Contribution of Various Process Parameters to the Hardness of A713 Alloy Casting Produced by Investment Casting Process, International Conference on Contemporary Issues in Management and Technology, (ICIMT-2011), CIM, Pune (India), August 08-09, 2011
28. **Jitendra Kumar Katiyar**, Nikhil Yadav, Nitu Singh, Vijay Pal, Investigating the Effects of Varying Proportion of Wax Mixture on Surface Roughness and Optimization by Taguchi

Method. Second International Conference on Mechanical & Aerospace Engineering (ICMAE-2011), First Hotel Bangkok, Thailand, July 29-31, 2011

29. **Jitendra Kumar Katiyar**, Nitu Singh, Vijay Pal, Chetna Masih, Role of Orifice and Abrasive Flow Rate in Cutting Speed by Abrasive Water Jet Machining. Fifth International Conference on Advances in Mechanical Engineering (ICAME-2011), SVNIT, Surat (India), June 06-08, 2011
30. Kanmani Subbu Subbian, **Jitendra Kumar Katiyar**, Ramkumar Janakarajan, Dhamodaran S, Fe-Cu Alloy Nano Particles Generation by Electric Discharge Machining, ICOMM-2011, 6th International Conference on MicroManufacturing, Tokyo Denki University, Tokyo, Japan during March 7-10, 2011.
31. S. Kanmani Subbu, **Jitendra Kumar Katiyar**, J. Ramkumar, S. Dhamodaran, Dry Micro-Electric Discharge Deposition of Copper on Die steel: Effect of Pulse on-time, International Workshop on Micro Factories (IWFM) 2010, 7th International Workshop on Micro factories, Daejeon Convention Centre, Korea, 24-27 October 2010.

Book Chapters:

1. P Baskara Setupathi, A Eakambaram, **Jitendra Kumar Katiyar**, MA Sai Balaji, Tribological, Mechanical and Surface Characterization of Basalt Fiber Composite with/without Surface Modification, Proceedings of the International Conference on Eco-friendly Fibers and Polymeric Materials: EFPM 2024, 19–20 February, Bangkok, Thailand, 2024. https://doi.org/10.1007/978-981-97-7071-7_1.
2. **Jitendra Kumar Katiyar**, Ahmad Majdi Abdul Rani, M. H. Sulaiman, Utpal Barman, Patrick J. Masset, T. V. V. L. N. Rao, Recent Advances of Tribology in Sustainable Manufacturing, In Tribology in Sustainable Manufacturing, Eds. Katiyar, J.K., Rao, T., Rani, A.M.A., Sulaiman, M.H., & Davim, J.P., 2023, <https://doi.org/10.1201/9781003363576>
3. Sanjeev Kumar and **Jitendra Kumar Katiyar**, Roles of Tribology in Friction Stir Welding and Processing, In Tribology in Sustainable Manufacturing, Eds. Katiyar, J.K., Rao, T., Rani, A.M.A., Sulaiman, M.H., & Davim, J.P., 2023, <https://doi.org/10.1201/9781003363576>
4. **Jitendra Kumar Katiyar** and Hemalata Jena, The role of synthetic fibers in the tribological behavior of polymeric materials, In: Tribology of Polymers, Polymer Composites, and Polymer Nanocomposites, Elsevier Series on Tribology and Surface Engineering, Eds: Soney C. George, Jozef T. Haponiuk, Sabu Thomas, Rakesh Reghunath, Sarath P. S., 173-194, 2023. <https://doi.org/10.1016/B978-0-323-90748-4.00002-9>
5. R. Rajesh, Mithun V. Kulkarni, P. Sampathkumaran, S. Anand Kumar, Subramanyam Seetharamu, **Jitendra Kumar Katiyar**, Tribological Performance Involving DOE of an Additively Manufactured Cu-Ni Alloy, In: Jitendra Kumar Katiyar, T V V L N Rao, Alessandro Ruggiero, J. Paulo Davim, Industrial Tribology: Sustainable Machinery and Industry 4.0, DOI: 10.1201/9781003243205-5
6. Pravesh Ravi and **Jitendra Kumar Katiyar**, Tribocorrosion in Automotive Sectors, In: Jitendra Kumar Katiyar, T V V L N Rao, Alessandro Ruggiero, J. Paulo Davim, Industrial Tribology: Sustainable Machinery and Industry 4.0, DOI: 10.1201/9781003243205-13.

7. **Jitendra Kumar Katiyar** And Hemalata Jena, Study of Tribo-Corrosion in Materials, In: Vikram Kumar, Avinash Kumar Agarwal, Ashutosh Jena, Ram Krishna Upadhyay (eds) *Advances in Engine Tribology*, Springer Singapore, 239-256, 2021.
8. Ashok Raj J, Santosh Kumar B H, L. Arulmani and **Jitendra Kumar Katiyar**, Surface Coatings for Automotive Applications, In: Amit Aherwar, Catalin I Pruncu (eds), *Tribology, lubrication and Surface Engineering: Research vs Applications*, CRC Press USA, Taylor & Francis Group, 193-208, 2021. (DOI: 10.1201/9781003097082-9).
9. **Jitendra Kumar Katiyar** And Hemalata Jena, Study of the Manufacturing Process of Polymer Spur Gear: A Light Weight Gear Material, In: KAUSHIK KUMAR (eds), *Lightweight Materials*, ISTE UK, 23-35, 2021. (ISBN: 9781786307972).
10. **Jitendra Kumar Katiyar**, Jaafar Al Hammad and M. Abdul Samad, Tribological Properties of Light Metal Matrix Composites, In: Dermot Brabazon (ed.), *Encyclopedia of Materials: Composites*, Elsevier, 1, 389-401, 2021. (DOI: 10.1016/B978-0-12-819724-0.00104-X)
11. Hemalata Jena and **Jitendra Kumar Katiyar**, Tribo-Analysis of Polymer Composite in Spur Gear, In: Mohamed Thariq Hameed Sultan, Mohd Ridzuan Mohd Jamir, Mohd Shukry Abd Majid, Azwan Iskandar Azmi, Naheed saba (eds), *Tribological Applications of Composite Materials*, Springer Singapore, 309-329, 2021, DOI: 10.1007/978-981-15-9635-3_12.
12. V. Dhinakaran, **Jitendra Kumar Katiyar** and T. Jagadeesha, Mechanics of Metal Removal in Abrasive Jet Machining, In: Satya Bir Singh, Prabhat Ranjan, Alexander V. Vakhrushev, A. K. Haghi (eds), *Mechatronic Systems Design and Solid Materials: Methods and Practices*. Apple Academic Press, CRC Press, Taylor & Francis Group. 9781003045748, 2021.
13. V. Dhinakaran, **Jitendra Kumar Katiyar** and T. Jagadeesha, Mechanics and Material Removal Modelling and Design of Velocity Transformers in Ultrasonic Machining, In: Satya Bir Singh, Prabhat Ranjan, Alexander V. Vakhrushev, A. K. Haghi (eds), *Mechatronic Systems Design and Solid Materials: Methods and Practices*. CRC Press, Taylor & Francis Group. 9781003045748, 2021.
14. **Jitendra Kumar Katiyar** and Vinay Kumar Patel, Physico-Tribo-Mechanical and Adhesion Behaviour of Plasma Treated Steel and Its Alloys: A Critical Review, In: K L Mittal (ed.), *Progress in Adhesion and Adhesives*, Wiley Online Library, Volume 5, 1-32, 2020. DOI: 10.1002/9781119749882.ch1.
15. Anand Singh Rathaur, **Jitendra Kumar Katiyar** and Vinay Kumar Patel, Introduction and Applications of Tribology, In: Jitendra Kumar Katiyar, P. Ramkumar, T V V L N Rao and J. P. Davim (eds), *Tribology in Materials and Application*, series Materials Forming, Machining and Tribology, Springer Switzerland, DOI: 10.1007/978-3-030-47451-5_1.
16. Anand Singh Rathaur, **Jitendra Kumar Katiyar** and Vinay Kumar Patel, Tribo-mechanical Aspects of Micro-electro Mechanical Systems (MEMS), In: Jitendra Kumar Katiyar, P. Ramkumar, T V V L N Rao and J. P. Davim (eds), *Tribology in Materials and Application*, series Materials Forming, Machining and Tribology, Springer Switzerland, DOI: 10.1007/978-3-030-47451-5_13.
17. Jayant Singh, Deepak Bhardwaj and **Jitendra Kumar Katiyar**, Energy Efficient Graphene Based Nanocomposite Grease, In: Jitendra Kumar Katiyar, P. Ramkumar, T V V L N Rao

- and J. P. Davim (eds), Tribology in Materials and Application, series Materials Forming, Machining and Tribology, Springer Switzerland, DOI: 10.1007/978-3-030-47451-5_5.
18. Anuj Kumar Sharma, Rabesh Kumar Singh, Arun Kumar Tiwari, Amit Rai Dixit, **Jitendra Kumar Katiyar**, Rheological Behaviour of Hybrid Nanofluids: A Review, In: Jitendra Kumar Katiyar, P. Ramkumar, T V V L N Rao and J. P. Davim (eds), Tribology in Materials and Application, series Materials Forming, Machining and Tribology, Springer Switzerland, DOI: 10.1007/978-3-030-47451-5_4.
 19. Manoj Kumar Pathak, Vinay Kumar Patel, K. K. S. Mer, Amit Joshi, **Jitendra K. Katiyar**, The Potential of Bio-lubricants in Automotive Tribology, In: Katiyar J., Bhattacharya S., Patel V., Kumar V. (eds), Automotive Tribology. Energy, Environment, and Sustainability. Springer, Singapore. 2019, 3-13, DOI: 10.1007/978-981-15-0434-1_11.
 20. **Jitendra Kumar Katiyar**, Shantanu Bhattacharya, Vinay Kumar Patel and Vikram Kumar, Introduction of Automotive Tribology, In: Katiyar J., Bhattacharya S., Patel V., Kumar V. (eds), Automotive Tribology. Energy, Environment, and Sustainability. Springer, Singapore. 2019, 197-214 DOI: 10.1007/978-981-15-0434-1_1.
 21. **Jitendra Kumar Katiyar** and Vinay Kumar Patel, Nanoenergetic Materials on a Chip, In: Bhattacharya S., Agarwal A., Rajagopalan T., Patel V. (eds), Nano-Energetic Materials. Energy, Environment, and Sustainability. Springer, Singapore, 2018, 123- 139, ISBN No. 978-981-13-3268-5.
 22. Vinay Kumar Patel, **Jitendra Kumar Katiyar**, Shantanu Bhattacharya, Solid Energetic Materials Based Microthrusters for space applications, In: Bhattacharya S., Agarwal A., Rajagopalan T., Patel V. (eds), Nano-Energetic Materials. Energy, Environment, and Sustainability. Springer, Singapore, 2018, 241-250, ISBN No. 978-981-13-3268-5.

Books:

1. Harish Hirani, **Jitendra Kumar Katiyar**, TVVLN Rao, Proceedings of 6th International Conference on Tribo-corrosion (ICTC2024), A Springer Book Series Lecture Notes in Mechanical Engineering. (**Agreement Signed**)
2. Abhijit Bhaumik, **Jitendra Kumar Katiyar**, Chander Prakash, Alokesh Pramanik and Animesh Basak, Micro- and Nanocomposites: A Tribological Viewpoint, CRC Press, Taylor and Francis Group. 2024 (**Agreement Signed**)
3. **Jitendra Kumar Katiyar**, Ankit Sharma, Duc Truong Pham, TVK Gupta, Advanced Materials and Manufacturing: Towards Sustainability, A Springer Book Series Lecture Notes in Mechanical Engineering. (**In-press**)
4. Srihari Dodla, **Jitendra Kumar Katiyar** and Mohammed Abdul Samad, Optimization Tools in Mechanical and Production Engineering: Fundamental and Advanced Approaches, CRC Press, Taylor and Francis Group. 2023 (**Agreement Signed**)
5. Avinash Kumar and **Jitendra Kumar Katiyar**, Micro- and Bio-fluidics: Spotlight on the Future, CRC Press, Taylor and Francis Group. 2024 (**ISBN 9781032689913**)
6. M F Wani, **Jitendra Kumar Katiyar** and Rakesh Sehgal, High-Temperature Tribology of Ceramics and Ceramic Matrix Composites, Elsevier. 2023 (**ISBN 9780323916059**)
7. **Jitendra Kumar Katiyar**, Anuj Kumar Sharma, Ranjeet Kumar Sahu, and Zulfiqar A Khan, Additives in Manufacturing: A Tribological View, CRC Press, Taylor and Francis Group. 2023 (**ISBN 9781032220369**)
8. **Jitendra Kumar Katiyar**, T V V L N Rao, Ahmad Majdi Abdul Rani, Mohd Hafis Sulaiman, J. Paulo Davim, Tribology in Sustainable Manufacturing, CRC Press, Taylor

- and Francis Group. 2023 (ISBN 9781032426310)
<https://doi.org/10.1201/9781003363576>
9. **Jitendra Kumar Katiyar**, T V V L N Rao, Alessandro Ruggiero, J. Paulo Davim, Industrial Tribology: Sustainable Machinery and Industry 4.0, series Manufacturing Design and Technology, CRC Press, Taylor and Francis Group. 2022 (ISBN 9781032152349)
<https://doi.org/10.1201/9781003243205>
 10. **Jitendra Kumar Katiyar**, Vinay Panwar, Neha Ahlawat, Nanomaterials for Advanced Technologies, Springer Nature Singapore. 2022 (ISBN 9789811913839)
<https://doi.org/10.1007/978-981-19-1384-6>
 11. **Jitendra Kumar Katiyar** and Mohammed Abdul Samad, Tribology in Sustainable Composites, CRC Press, Taylor and Francis Group. 2022 (ISBN 9781032220406)
<https://doi.org/10.1201/9781003270966>
 12. **Jitendra Kumar Katiyar**, Ranjeet Kumar Sahu and TCSM Gupta, Sustainable Lubrication: A Bliss Impact on Industrial Society, CRC Press, Taylor and Francis Group. 2022 (ISBN 9781032061962) <https://doi.org/10.1201/9781003201199>
 13. **Jitendra Kumar Katiyar** and Ranjeet Kumar Sahu, Modern manufacturing Techniques: Spot Light in Future, CRC Press, Taylor and Francis Group. 2021 (ISBN 9781032066394)
<https://doi.org/10.1201/9781003203162>
 14. T V V L N Rao, Salmiah Kasolang, Guoxin Xie, **Jitendra Kumar Katiyar**, Ahmad Majdi Abdul Rani (Editors) Biotribology: Emerging Technologies and Applications, Emerging Materials and Technologies Series (Series Editor Prof. Boris I. Kharissov), CRC Press (Taylor & Francis), 2021 (ISBN 9780367687854)
<https://doi.org/10.1201/9781003139270>
 15. T V V L N Rao, Salmiah Kasolang, Guoxin Xie, **Jitendra Kumar Katiyar**, Ahmad Majdi Abdul Rani (Editors) Green Tribology: Emerging Technologies and Applications, Emerging Materials and Technologies Series (Series Editor Prof. Boris I. Kharissov), CRC Press (Taylor & Francis), 2021 (ISBN 9780367688608)
<https://doi.org/10.1201/9781003139386>
 16. Hemalata Jena, **Jitendra Kumar Katiyar** and Amar Patnaik, Tribology of Polymer and Polymer Composites for Industry 4.0, series Composites Science and Technology, Springer Singapore, <https://doi.org/10.1007/978-981-16-3903-6>, 2021.
 17. **Jitendra Kumar Katiyar**, Mir Irfan Ul Haq, Ankush Raina, R. Arvind Singh and S. Jayalakshmi, Tribology and Sustainability, CRC Press, Taylor and Francis Group, <https://doi.org/10.1201/9781003092162>, 2021.
 18. **Jitendra Kumar Katiyar**, P. Ramkumar, T V V L N Rao and J. P. Davim (editors), Tribology in Materials and Application, series Materials Forming, Machining and Tribology, Springer Switzerland, <https://doi.org/10.1007/978-3-030-47451-5>, 2020.
 19. **Jitendra Kumar Katiyar**, Shantanu Bhattacharya, Vinay Kumar Patel and Vikram Kumar, Automotive Tribology, series Energy, Environment, and Sustainability. Springer Singapore, <https://doi.org/10.1007/978-981-15-0434-1>, 2019.