

# Mechanical Engineering Department, MNNIT, Allahabad

## International Journals

### Year 2024

1. Yash Vishnoi, Alok Kumar Trivedi, M. K. Gupta, Harinder Singh, Sanjay Mavinkere Rangappa, Suchart Siengchin. Extraction of Nano-crystalline Cellulose for Development of Aerogel: Structural, Morphological and Antibacterial Analysis. *Heliyon*. January 2024; 10, 1-14, DOI: 10.1016/j.heliyon.2023.e23846

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1. Param Singh, Vinod Yadava and Audhesh Narayan; Performance Study of Ultrasonic-Assisted Micro-Electrical Discharge Machining of Inconel 718 Super alloy using Rotary Tool Electrode; *Journal of The Institution of Engineers (India): Series C*, Vol. 104, Issue 1, pp: 149-162 (2023)
2. Nandani Singh, Vinod Yadava and Pragya Shandilya; Experimental investigation into electrochemical discharge peripheral surface grinding process of polymer nanocomposites; *International Journal of Machining and Machinability of Materials*; Vol. 25, Issue 1, pp: 21-40 (2023)
3. Palvita Yadav, Vinod Yadava and Audhesh Narayan; Experimental Modelling and Optimization of WECS of Polymer Nanocomposite; *Advances in Materials and Processing Technologies* ; Pages 1-21 (2023)
4. Param Singh, Vinod Yadava and Audhesh Narayan, Machining Performance Characteristics of Ti-6Al-4V Alloy Due to Ultrasonic Assisted Micro-EDM Using Rotating Tool Electrode, *Journal of The Institution of Engineers (India): Series D*, pp: 1-13 (2023)
5. Kirti Sahai, Audhesh Narayan and Vinod Yadava, Development and Experimental Study of Milling Electrochemical Spark Micromachining (M ECSMM) of Silicon, *Silicon*, Vol. 15 , Issue 1 , Pages 473-497 (2023)
6. Gurkirat Singh, Kailash N Pandey, "Effect of deep cryogenic treatment, tempering temperature and time on hardness of Nimonic-90", *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, <https://doi.org/10.1177/09544089231159780>, First published online March 7, 2023 (SCI)
7. Analysis of Compression Behavior of TPMS and Strut type Lattice Structures Using Finite Element Method P Yadav, A Kushwaha, M Shukla *NanoWorld*, Publisher: United Scientific Group, 9(S1), S687-S692, 2023 <https://doi.org/10.17756/nwj.2023-s1-131> Scopus Journal;
8. Finite element analysis based design of biomimetic functionally graded Ti-6Al-4V alloy scaffolds for human cortical bone applications R Bora, M Shukla, A Kumar *Materials Today: Proceedings*, Available online 16 May 2023 <https://doi.org/10.1016/j.matpr.2023.05.057> Scopus Journal;
9. 3D thermal simulation of powder bed fusion additive manufacturing of stainless steel AKS Chauhan, M Shukla, A Kumar *International Journal on Interactive Design and Manufacturing (IJIDeM)* 17(2), 517-524, 2023 <https://doi.org/10.1007/s12008-023-01234-7> Scopus Journal; Impact Factor 2.1
10. Effect of Interface on Elastic Properties for Hybrid Smart Nanocomposites using Micromechanics based Mori Tanaka Technique SS Godara, PK Mahato, I Kumar, M Shukla *IJEMS, NIScPR-CSIR, India*, 30(2), 346-355, 2023 <https://doi.org/10.56042/ijems.v30i2.598> SCIE and Scopus Journal; Impact Factor 0.9
11. Dhruv Kant Rahi, Avani Kumar Dubey, Modeling and Optimization of Surface Quality Characteristics in Electrochemical Surface Grinding of Metal Matrix Composite, *Journal of Materials Engineering and Performance*.(2023):1-4.DOI: <https://doi.org/10.1007/s11665-023-08267-9>.
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16. Shukla, P. and Agarwal, P. K., "Fault Detection and Diagnosis of Rotor-Ball Bearing System", *NanoWorld*

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17. Rahul Kumar, V. R. Komma (2023) Development of Experimental Setup and Parametric Study of Magnetic Abrasive Finishing Process of Plane Workpieces. *NanoWorld Journal* 9(S1): S220-S224. ISSN: 23791101
18. Nawdeep Maurya , Varun Singh, V. R. Komma. (2023). Investigation of Green Logistics Strategies: A Case Study in Indian Context, *NanoWorld Journal*, 9(S1): S10-S15, ISSN: 23791101, (Scopus)
19. Pretesh John, V. R. Komma, S. P. Bhore, (2023) " Development of MATLAB code for tool path data extraction from the G code of the fused filament fabrication (FFF) parts" *Engineering Research Express*, Volume 5, Number 2, 025018(1-11). <https://doi.org/10.1088/2631-8695/accc6f>, Available at <https://iopscience.iop.org/article/10.1088/2631-8695/accc6f> (Published online in April 2023) (ESCI, Scopus)
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22. P. K. Rai, R. K. Patel, Modal analysis of horns used in Rotary ultrasonic machining, *Nano World Journal* (scopus) 2023, Vol 9(I) S144-S147.
23. Sandeep Kumar Gautam, Rabindra Kumar Patel, Prediction of dynamical properties of Viscoelastic composites, *Nano World Journal* (scopus) 2023, Vol 9(I) S642-S645.
24. Abhishek Saroj, Manish Gupta and V. R. Komma (in press) “A Framework for identification of sustainability objectives of sustainable supply chain management in Indian scenario: an integrated ISM and SEM approach”, *International Journal of Indian Culture and Business Management*, [E-SCI] DOI: 10.1504/IJICBM.2022.10049398.
25. Satyam Bhardwaj, Manish Gupta and Shivam (2023) “Identification of Barriers to the Implementation of IoT in the Indian Agriculture Sector”, *NanoWorld Journal*, Vol. 9, No. 1, pp.24-28, [Scopus]. DOI: 10.17756/nwj.2023-s1-006
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