

UNITED COLLEGE OF ENGINEERING AND RESEARCH, NAINI, PRAYAGRAJ
DEPARTMENT OF MECHANICAL ENGINEERING

S.No.	Faculty Name	Title of Paper	Name of Journal/ Conference	SCI/ESCI/ Scopus Indexed	Year	DOI/ISSN
1	Dr. Rakesh Kumar Yadav	Analyzing the Energy Efficiency and Sustainability Implications of IoT Tools in Smart Homes	International Journal of Information Engineering and Electronic Business	Scopus	2025	10.5815/ijieeb.2025.01.03
2	Dr. Rakesh Kumar Yadav	Investigation of Stress and Wear Analysis for Aluminum-based Metal Matrix Composite Reinforced Silicon Carbide using ANSYS Software Package	Recent Patents on Mechanical Engineering	Scopus	2025	10.2174/0122127976334635240904114812
3	Dr. Rakesh Kumar Yadav	Mechanical and Tribological Properties of Aluminum Metal Matrix Composites—A Review	Lecture Notes in Mechanical Engineering	Scopus	2025	10.1007/978-981-97-4947-8_13
4	Dr. Rakesh Kumar Yadav	Ansys Analysis and Investigation of Mechanical Properties of Aluminum-based Metal Matrix Composite reinforced by Silicon Carbide	Aip Conference Proceedings	Scopus	2025	10.1063/5.0242162
5	Dr. Rakesh Kumar Yadav	Investigation of Properties of Aluminium Metal matrix composite reinforced by Aluminium Oxide using ANSYS	IEEE	Scopus	2024	10.1109/ICCCCM61016.2024.11039947
6	Dr. Mohan Gupta	Improvement in luminescence of Dy ³⁺ doped ZnMoO ₄ single ingredient white light emitting phosphor	Journal of Optoelectronic and Biomedical Materials	ESCI WOS	2025	10.15251/jobm.2025.172.41
7	Dr. Vivek Kumar	Optimizing Friction Stir Processing for Al-Fe Composites: Enhancing Mechanical Properties through Statistical Analysis	Journal of Materials Engineering and Performance, 2025	SCIE	2025	10.1007/s11665-025-11486-x
8	Dr. Dinesh Kumar	Utilization of LPG gas in the construction of a refrigerator	AIP Conf. Proc	SCOPUS	2025	10.1063/5.0240627
9	Dr. Naveen Kumar	Cyclic oxidation of 304L and 316L stainless steel coated and uncoated with Cr ₃ C ₂ –NiCr at elevated temperatures	Materials Science-Poland	SCIE	2025	10.2478/msp-2025-0010
10	Dr. Naveen Kumar	Utilization of LPG gas in the construction of a refrigerator	AIP Conf. Proc	SCOPUS	2025	https://doi.org/10.1063/5.0240627

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11	Dr. Naveen Kumar	Evaluation of microstructural and mechanical qualities in optimised TIG-welded SDSS 2507 joints	Materials Science-Poland	SCIE	2024	10.2478/msp-2024-0051
12	Dr. Naveen Kumar	Analysis of microstructure and microhardness of aluminum alloy melt for grain refinement by twin-roll casting	Journal of Materials Science: Materials in Engineering	ESCI/SCOPUS	2025	10.1186/s40712-025-00211-0
13	Dr. Naveen Kumar	An extensive analysis of GTAW process and its influence on the microstructure and mechanical properties of SDSS 2507	Journal of Materials Research and Technology	SCIE	2024	10.1016/j.jmrt.2024.11.157
14	Dr. Naveen Kumar	Evolution of Surface Morphology and Mechanical Characterization of GTAW Welded SDSS Thin Sheets	Results in Surfaces and Interfaces	Scopus	2025	10.1016/j.rsufi.2024.100412
15	Dr. Naveen Kumar	Investigation of stress and wear analysis for Aluminum-based Metal Matrix Composite Reinforced Silicon Carbide using ANSYS software package	Recent Patents on Mechanical Engineering	Scopus	2025	10.2174/0122127976334635240904114812
16	Mr. Sanjay Awasthi	Zirconia based hydrophobic coatings exhibiting excellent durability for versatile use	J. Electrochem. Sci. Eng. 00(0) (2024) 000-000	ESCI	2024	10.5599/jese.2259
17	Mr. Sanjay Awasthi	An Overview of Surface Coating Methodologies and Their Use in Technical Materials	Journal of Polymer & Composites-STM journals	ESCI WOS	2024	ISSN :2321-2810
18	Mr. Sanjay Awasthi	Preparation of transparent and thermal resistant zirconia reinforced epoxy based polymer matrix composite coatings	Journal of Polymer & Composites - STM journals	ESCI WOS	2025	ISSN :2321-2810
19	Mr. Gaurav Verma	Utilization of LPG gas in the construction of a refrigerator	AIP Conf. Proc	conference, Scopus	2025	10.1063/5.0240627
20	Mr. Gaurav Verma	Aluminum Based Types of Hydrophobic Coatings for Engineering Materials: A Review	JOPC	ESCI	2024	10.37591/JoPC