



**Research Paper Published in Journals during the AY 2022-2023**

Sl. No.	Title of paper	Name of the author/s	Department	Name of journal	Year of publication	ISSN number
1	Bisphenol-A- Carbon Nanotube Nanocomposite: Interfacial DFT Prediction and Experimental Strength Testing	Suneev Anil Bansal	MECH	Langmuir	2022-2023	<a href="https://doi.org/10.1021/acs.langmuir.2c02723">https://doi.org/10.1021/acs.langmuir.2c02723</a>
2	Small molecule NSAID derivatives for impairing powerhouse in cancer cells	Aman Bajpai	Chemistry	Bioorganic & Medicinal Chemistry	2022-2023	9680896
3	Content Addressable Memory Design in 3D pNML for Energy-Aware Sustainable Computing	Misra Neeraj Kumar	ECE	Journal of Circuits, Systems and Computers	2022-2023	0218-1266
4	Disk margin based robust stability analysis of a DC motor drive	Murugaperumal Krishnamoorthy	EEE	Engineering Science and Technology, an International Journal	2022-2023	22150986
5	Electrocaloric effect and temperature dependent scaling behaviour of dynamic ferroelectric hysteresis studies on modified BTO	Lagen Kumar Pradhan	PHYSICS	Journal of Physics and Chemistry of Solids	2022-2023	223697
6	An accurate analytical modeling of solar photovoltaic system considering Rs and Rsh under partial shaded condition	Sampath Kumar Vankadara	EEE	International Journal of System Assurance Engineering and Management	2022-2023	9756809
7	A wideband monopole antenna with diplexer and rectifier for simultaneous energy harvesting and data communication	Geriki Polaiah	H&S	International Journal of RF and Microwave Computer-Aided Engineering	2022-2023	10964290
8	Engineering Electrical and Thermal Attributes of Two-Dimensional Graphene Reinforced Copper/Aluminium Metal Matrix Composites for Smart Electronics	Suneev Anil Bansal	MECH	ECS Journal of Solid State Science and Technology	2022-2023	21628769
9	A novel energy-efficient clustering protocol in wireless sensor network: multi-objective analysis based on hybrid meta-heuristic algorithm	Y. Alekya Rani	CSE	Journal of Reliable Intelligent Environments	2022-2023	21994668
10	Physical characterization and antibacterial activity of zinc oxide nanostructures synthesized via facile hydrothermal method	I. Sophia Rani	H&S	Materials Today: Proceedings	2022-2023	22147853
11	Investigation on wear behavior of aluminium matrix micro and nanocomposites	Prateek Asthana	ECE	Materials Today: Proceedings	2022-2023	22147853
12	Study of dipole polarization in Zn doped barium hexaferrite	Lagen Kumar Pradhan	PHYSICS	Materials Today: Proceedings	2022-2023	22147853
13	Performance analysis of an Injera baking machine by using solar energy	Suresh P	MECH	Materials Today: Proceedings	2022-2023	22147853
14	Modal Analysis of Horns Used in Rotary Ultrasonic Machining	Rai, Praveen Kumar	MECH	NanoWorld Journal	2022-2023	23791101
15	CFD Analysis on BS6 Exhaust System of Two-wheeler	Pradeep Chavan, Praveen Kumar Rai, Nilabh Dish	MECH	NanoWorld Journal	2022-2023	23791101
16	Security and energy efficient cyber-physical systems using predictive modeling approaches in wireless sensor network	Papiya Dutta	ECE	Wireless Networks	2022-2023	10220038
17	Fabrication of efficient aluminium/graphene nanosheets (Al-GNP) composite by powder metallurgy for strength applications	Suneev Anil Bansal	MECH	Journal of Materials Research and Technology	2022-2023	22387854
18	Evaluating the Efficiency of Non-Orthogonal MU-MIMO Methods in Smart Cities Technologies & 5G Communication	Dutta, Papiya	ECE	Sustainability (Switzerland)	2022-2023	20711050
19	Mathematical modeling and reliability analysis for pellet manufacturing unit of a polymer section	Suneev Anil Bansal	MECH	Materials Today: Proceedings	2022-2023	22147853
20	Aluminium-graphene metal matrix nanocomposites: Modelling, analysis, and simulation approach to estimate mechanical properties	Suneev Anil Bansal	MECH	Materials Today: Proceedings	2022-2023	22147853
21	Effect of graphene size variation on mechanical properties of aluminium graphene nanocomposites: A modeling analysis	Suneev Anil Bansal	MECH	Materials Today: Proceedings	2022-2023	22147853

22	Influence of Cooling Media on the Electrochemical Behavior of Friction Stir Processed Al2014 Alloy	G. Manohar	MECH	JOM The Journal of The Minerals, Metals & Materials Society (TMS)	2022-2023	10474838
23	Visible to near-infrared broadband photodetector employing thin film topological insulator heterojunction (p-TiB <sub>2</sub> Se <sub>2</sub> /n-Si) diode	Faizan Ahmad	ECE	Applied Surface Science	2022-2023	1694332
24	Analyzing histopathological images by using machine learning techniques	R. Madana Mohana	CSE	Applied Nanoscience	2022-2023	21905509
25	Wire-cut electrical discharge machining of novel MMCs using silane-treated corn cob biosilica-deionized green dielectric: a cleaner production approach	Sivakumar N. S	MECH	Biomass Conversion and Biorefinery	2022-2023	21906815
26	Paradigm of state-of-the-art CNT reinforced copper metal matrix composites: processing, characterizations, and applications	Bansal, Suneev Anil	MECH	Journal of Materials Research and Technology	2022-2023	22387854
27	Improvement of power quality parameters using modulated-unified power quality conditioner and switched-inductor boost converter by the optimization techniques for a hybrid AC/DC microgrid	Khan, Yawer Abbas	EEE	Scientific Reports	2022-2023	20452322
28	Graphene-reinforced nanocomposites: synthesis, micromechanics models, analysis and applications – a review	Bansal, Suneev A	MECH	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2022-2023	9544062
29	Implementation of a new speed estimation technique for vector controlled switched reluctance machines	Khan, Yawer Abbas	EEE	Measurement: Journal of the International Measurement Confederation	2022-2023	2632241
30	Physical characterization and antibacterial activity of zinc oxide nanostructures synthesized via facile hydrothermal method	Yuvarani, A., Vaideeswaran, R., Sophia Rani, I., Reeta Mary, I.	Physics	Materials Today: Proceedings	2022-2023	2214-7853
31	Damping properties of magnesium surface layers developed by friction stir processing	Guttikonda Manohar	MECH	Advances in Materials and Processing Technologies	2022-2023	2374068X
32	Multichannel Power Constraints-Based SNR Estimation for the non-cooperative and cooperative scenarios of multi-user Wireless Network	Papiya Dutta	ECE	Physical Communication	2022-2023	18744907
33	Adaptive population-based multi-objective optimization in SDN controllers for cost optimization	Papiya Dutta	ECE	Physical Communication	2022-2023	18744907