



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Yelahanka, Bengaluru – 560 064

DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Publications in Journals/Conferences/Book Chapters

2024-25 (Aug-24 to July25)

SL No	Faculty Name	Title of the paper	Journal/ Book Chapter	Title of the Journal/Book Chapter	Scopus/Web of Science	Month & Year of Publicat ion	Quartile
1	Nagamadhu M	Ultra-sensitive platform for the detection of a psychostimulant drug using a nanostructured titanium carbide/carbon matrix: Insights into electrochemical sensing mechanism	Journal	Materials Chemistry and Physics	SCIE	Jul-25	Q1
2	Srinidhi Acharya S R	Influence of zirconium carbide particles on the mechanical characteristics of heat treated Al7475 alloy	Journal	Scientific Reports	SCIE	Apr-25	Q1
3	Nagamadhu M	Characterization and evaluation of joint properties of friction stir welded AA7075 /GNPs joints obtained using square and cylindrical threaded tool	Journal	Journal of Materials Research and Technology	SCIE	May-25	Q1
4	Nithya Poornima S	Experimental Investigation of the Characteristics and Tribological Effectiveness of Pongamia pinnata Lubricant Oil Blended with Nano additives	Journal	Lubricants	SCIE	Mar-25	Q2
5	Manjunatha C	Development and mechanical characterisation of hybrid tungsten carbide/graphite reinforced aluminium metal matrix composites using deep learning techniques	Journal	Canadian Metallurgical Quarterly	SCIE	Apr-25	Q2

6	Keerthi kumar N	Design and fabrication strategies for enhancing patient comfort and sustainability through PETG based 3D-printed orthoses	Journal	Progress in Additive Manufacturing	Web of science	Jan-25	Q1
7	K M Sathish Kumar	Advancements in EBSD Techniques: A Comprehensive Review on Characterization of Composites and Metals, Sample Preparation, and Operational Parameters	Journal	Journal of Composites Science	Web of science	Mar-25	Q1
8	Nagamadhu M	Effect of Printing Parameters on Mechanical Properties and Warpage of 3D-Printed PEEK/CF-PEEK Composites Using Multi-Objective Optimization Technique	Journal	Journal of Composite Science	Web of science	Apr-25	Q1
9	Nagamadhu M	Effect of Zirconium Silicate Reinforcement on Aluminum 7075; Mechanical Properties, Thermomechanical Analysis and Vibrational Behavior	Journal	Eng	Web of science	Jan-25	Q2
10	Keerthi Kumar N	Reinforcement learning-based topology optimization for generative designed lightweight structures	journal	MethodsX	Web of science	Jul-25	Q2
11	K M Sathish Kumar	Policies and Challenges for Implementation of ICT at Higher Education in Technologically Advanced Countries	Journal	Journal of Information Systems Engineering and Management	Web of science	Feb-25	Q3
12	Nagamadhu M	Performance studies on a solar PV-powered multi-stage cooling system	Journal	Cogent Engineering	Scopus	Aug-24	Q2
13	Nithya Poornima S	Exploring Nano-Graphene in Bio-Lubricants: Innovative Approaches to Reduce Friction and Wear Engineering Systems	Journal	Letters in High Energy Physics, Volume 2024	Scopus	Oct-24	Q2
14	Nithya Poornima S	Tribological Properties of Bio-Nano Lubricants: A Study on Friction, Wear, and Lubrication Efficiency	Journal	Letters in High Energy Physics, Volume 2024	Scopus	Oct-24	Q2
15	Kiran M D	Study of Abrasive Wear Behavior of Epoxy-Carbon Fiber Composites with Nano Al ₂ O ₃ Filler: An Algorithmic Approach	Journal	Journal of Bio- and Tribo-Corrosion	Scopus	Jan-25	Q2

16	Nagamadhu M	Comparative analysis of fly ash cenosphere and copper reinforcements in friction stir welded AA6082-T6 alloy	Journal	Materials Research Express	Scopus	Jun-25	Q2
17	Kiran M D	3D finite element analysis of carbon fiber reinforced aluminium alloy wheel	Journal	Interactions, Volume 245, article number 252, (2024),	Scopus	Aug-24	Q3
18	Chethan D	Optimizing Dental Composites: Synergistic Effects of Calcite-Zincate Nanoparticles in PMMA Resin for Enhanced Mechanical Performance	Journal	Journal of The Institution of Engineers (India): Series D	Scopus	Oct-24	Q3
19	Kiran M D	Effect of Fillers on Machinability of Polymer Matrix Composites: A Review	Journal	Journal of Propulsion Technology	Scopus	Dec-24	Q3
20	Nagamadhu M	Taguchi-Based Experimentation Technique in Combination with Multifactor Regression for Optimization of Refrigerants, Design and Process Parameters to Maximize Heat Transfer in Heat Pumps	Journal	Journal of The Institution of Engineers (India): Series C	Scopus	Apr-25	Q3
21	Nithya Poornima S	Rheological Insights and Optimization of Bio Nano Lubricants in Tribological Systems	Journal	Nanotechnology Perceptions	Scopus	Nov-24	Q4
22	Madhu M C	Optimization of Mechanical Properties of Cordia dichotoma/Alumina Nanoparticle Reinforced Epoxy Nanocomposites Under Alkali Treatment Using ANN Techniques	Journal	Journal of Environmental Nanotechnology	Scopus	Jun-25	Q4
23	Keerthi Kumar N	Development of Sustainable Okra Fiber-Nano-SiO ₂ -reinforced Epoxy Composites: Mechanical Characterization and Machine Learning-based Prediction	journal	Journal of Environmental Nanotechnology	Scopus	Jun-25	Q4
24	Keerthi Kumar N	Vibration Characteristics in Ball Bearing due to Unbalanced Mass	journal	Journal of Mines, Metals and Fuels	Scopus	Apr-25	Q4
25	Kiran M D	Tribological Characterization of Nano-Al ₂ O ₃ -Filled Nickel-Coated Short Carbon Fiber-Reinforced Epoxy Composites	Book Chapter	Advances in Science, Technology & Innovation. Springer	Scopus	Oct-24	Q3

26	Keerthi Kumar N	Enhancement of Productivity by Reducing Lead Time in, Housing for Power Steering Using Lean Manufacturing Process	Book Chapter	Advances in Science, Technology & Innovation. Springer	Scopus	Oct-24	Q3
27	Kiran M D	Influence of Fillers on Machining Process of Polymer Composites	Book Chapter	Advances in Composite and Advanced Materials Machining	Scopus	Jan-25	-
28	Nagamadhu M	Evolution and recent advancements of composite materials in sports applications	Book Chapter	Applications of Composite Materials in Engineering	Scopus	Oct-24	-
29	Nagamadhu M	Agricultural Wastes for Production of Biochar	Book Chapter	Biochar Production Engineering	Scopus	Jul-25	-
30	Nagamadhu M	Polymer Cation Exchange Sorbents for the Removal of Heavy Metal Ions	Book Chapter	Ion Exchange Processes for Water and Environment Management	Scopus	Jul-25	-
31	Nagamadhu M	Activated Carbon and Polymeric Ion Exchange Sorbents for Metaldehyde Elimination	Book Chapter	Ion Exchange Processes for Water and Environment Management	Scopus	Jul-25	-
32	Nagamadhu M	Composite Ion-Exchange Sorbents: Development, Properties, and Applications	Book Chapter	Ion Exchange Processes for Water and Environment Management	Scopus	Jul-25	-
33	Avinash G	Aerodynamic Analysis of Ventilated Ducts in Automotive Cooling	Book Chapter	International Conference on Recent Advancements in Mechanical Engineering	Non Scopus	Dec-24	-
34	Keerthi kumar N	Investigation on Wear Behaviour of Nano B4C Reinforced Composite with Zn Alloy Matrix	Conference	Innovations in Electronic Materials: Advancing Technology for a Sustainable Future	Scopus	Jan-25	NA

Journal								Book Chapters	Conference	Total
SCIE	Web of Science	Scopus	Total	Q1	Q2	Q3	Q4			
5	6	13	24	6	8	5	2	9	1	34