



**SRI KRISHNA COLLEGE OF TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**ACADEMIC YEAR- 2023-2024**  
**FACULTY JOURNAL PUBLICATION**



Sl. No.	Authors Name (Add all author name )	Title of the Paper	Name of the Journal	Indexed in	Vol. No. / Issue	Academic Year
1	M. Varatharajulu, Muthukannan Duraiselvam, G. Jayaprakash, N. Baskar, S. Vijayaraj, K. Anand Babu	A Retrospective Analysis on Drilling Operation and its Parameters: A Critical Review	Surface Review and Letters	SCIE	30(10)	2023-2024
2	R.Srinivasan, R.Deepalakshmi, J. Baskaran, Nagaraj Ashok, S.Venkatesa Prabhu, T. Pradeep	Investigation on the mechanical properties of micro-sized B4C Particles reinforced with FSW of aluminium alloy composites	Materials Today Proceedings	Scopus	Online	2023-2024
3	Subbarama Kousik Suraparaju, Arivazhagan Sampathkumar, Sendhil Kumar Natarajan	Development of paraffin wax & used cooking oil based composite thermal energy storage for efficient potable water generation in a solar distillation unit	Journal of Energy Storage	SCIE	69	2023-2024
4	P. Venkataramanan, P.Prathap, P.Sivaprakash .S. Kanchana	Assessment of azo dye in textile wastewater and examine the fire safety measures ensured in garment industries in Tirupur district, India	Polish Journal of Environmental studies	SCIE	32 / 4	2023-2024
5	Sakthivelmurugan E, Senthilkumar G, Vinu Kumar S M, Harwinder Singh	Dynamic mechanical and drilling behavior of Alstonia macrophylla fiber-reinforced polypropylene (PP) composites	Journal of the Brazilian Society of Mechanical Sciences and Engineering	SCIE	45	2023-2024

6	A. Saravanakumar , R. Jeyakumar , S. Boovendravarmaan , P. Arivalagan , M. Sundra Pandian	Study of tribological characteristics of hybrid aluminium matrix composite using design of experiment	Materials Today Proceedings	Scopus	Online	2023-2024
7	R. Venkatesh, P. Sakthivel, G. Selvakumar, A. Mohana Krishnan, P. Purushothaman · C, B. Priya	Mechanical and thermal properties of a waste fly ash-bonded Al-10 Mg alloy composite improved by bioceramic silicon nanoparticles	Biomass Conversion and Biorefinery	SCIE	Published in online	2023-2024
8	K. Ramkumar, M. Varatharajulu, C. B. Priya, V. Vijayan	Prediction of Optimal Input Parameters for Incremental Sheet Metal Forming Process with Taguchi-Based GRA and TOPSIS Technique Using AISI 316	JOM	SCIE	75	2023-2024
9	Senthil Maharaj Kennedy, K. Amudhan, R.B. Jeen Robert, A. Vasanthanathan, A. Vignesh Moorthi Pandian	Experimental and finite element analysis on the effect of pores on bio-printed polycaprolactone bone scaffolds	Bioprinting	WOS	34	2023-2024
10	T. Varunkumar, M. Jayaraj, R. Sivakumar, N. Manikandan	Investigation of mechanical, thermal and water absorption behaviour of MWCNT's with AL2O3 reinforced polymer composite	Digest Journal of Nanomaterials and Biostructures	SCIE	18 (3)	2023-2024
11	Vikas KHALKAR, Pon HARIHARASAKTHISUDHAN, Kamaraj LOGESH, Arul MOSHI, Jyoti BORADE, Rohan KALAMKAR	Some Studies Verify the Applicability of the Free Vibration Method of Crack Detection in Composite Beams for Different Crack Geometries	Romanian Journal of Acoustics and Vibration	ESCI	19 (2)	2023-2024

12	Sakthivelmurugan E, Senthilkumar G, Vinu Kumar S M,	Effect of alkali treatment of alstonia macrophyll fiber on Dynamic mechanical and machinability properties of PP composites reinforced with Unidirectional AS fiber	Materials Research	Scopus	26	2023-2024
13	P. Arun Karthick , G. Bharath Reddy , M. Saravanakumar , B. Ramakrishna Reddy , K. Giridhar Saikiran, N. Senthil Kannan , S. Ram	Taguchi optimization on friction stir welding of nitinol composite	Materials Today Proceedings	Scopus	Online	2023-2024
14	Sathish Kannan, M. Varatharajulu, P. Hariharasakthisudhan, K. Logesh	Identification of the effect of strontium and ytterbium addition over magnesium zinc alloy during the drilling process with ARAS and WASPAS techniques	Materials Chemistry and Physics	SCIE	309	2023-2024
15	K. Logesh, P. Hariharasakthisudhan, Renjin J. Bright, A. Arul Marcel Moshi , Sathish Kannan	Exploring the formability of GLARE laminates enhanced with hybrid nanofillers through formability index, anisotropy, and surface crack length analysis	Polymer Composites	SCIE	online	2023-2024
16	Omkar JARALI, Kamaraj LOGESH, Vikas KHALKAR, Pon HARIHARASAKTHISUDHAN	Vibration Based Delamination Detection in Fiber Metal Laminates Composite Beam	Romanian Journal of Acoustics and Vibration	ESCI	20-Jan	2023-2024
17	Muhammad Ikhsan Taipabu, Karthickeyan Viswanathan, Wei Wu, Renanto Handogo, Annasit Mualim, Hairul Huda	New improvement of amine-based CO2 capture processes using heat integration and optimization	Chemical Engineering and Processing - Process Intensification	SCIE	193	2023-2024
18	S. Madhankumar, Karthickeyan Viswanathan, Muhammad Ikhsan Taipabu, Wei Wu	A review on the latest developments in solar dryer technologies for food drying process	Sustainable Energy Technologies and Assessments	SCIE	58	2023-2024
19	Sivaraman, P., Ilakiya, P., Prabhu, M.K., and Ajayan	Real-Time Gearbox Defect Detection Using IIoT Based Condition Monitoring System	SAE Techpapers	Scopus	Online	2023-2024

20	C. Veera Ajay, P. Hariharasakthisudhan, V. Vinoth, S. Sundaravignesh	Influence of process parameters on the tribological behaviour of dual reinforcement (Al <sub>2</sub> O <sub>3</sub> / Si <sub>3</sub> N <sub>4</sub> ) in AA6061 metal matrix composite	Materials Today Proceedings	Scopus	Online	2023-2024
21	Y. Aboobucker Parvez, Prasanth Ponnusamy, Santhosh S, Rakhi Kamra	Synthesis and structural feasibility of photonic materials	The Scientific Temper	WOS	14(3)	2023-2024
22	C Veera Ajay, P Hariharasakthisudhan , S Anand and I Sivasubramanian	Mechanical and tribological characteristics of hypo eutectic Al-7Si alloy-based composite reinforced with Sn metal powder and Al <sub>2</sub> O <sub>3</sub> using bottom pouring stir casting technique	Physica Scripta	SCIE	98	2023-2024
23	Dr.Vinu kumar S M, and Harwinder Singh	Wear, morphological, and thermal behaviour of the flax fibre reinforced epoxy composites	Indian Journal of Fibre and Textile Research	SCIE	48/23	2023-2024
24	Mr.Sivaraman P and Dr Santhosh S	Enhancing sustainability and performance of automated air conditioners through optimizing product recovery in closed-loop supply chains	Thermal Sciences	SCIE	27(06)	2023-2024
25	T. A. Selvan · K. Velusamy · K. M. Senthilkumar & P. Arivalagan	Exploring the Metallurgical and Mechanical Characteristics of Magnesium/Silicon Carbide Surface Composites Manufactured via Friction Stir Processing	J. Inst. Eng. India Ser. D	Scopus		2023-2024

26	Muhammad Ikhsan Taipabu, Yi-Lin Hsieh, Karthickeyan Viswanathan, Wei Wu	Organic ternary mixture separation and purification using chromatography: Design, operation, and optimization	Journal of the Taiwan Institute of Chemical Engineers	SCIE		2023-2024
27	Senthil Maharaj Kennedy, A. Vasanthanathan, R.B. Jeen Robert, K. Amudhan	Advancements and prospects of polymer-based hybrid composites for bone plate applications	Polymer-Plastics Technology and Materials	SCIE	34/e00301	2023-2024
28	Sivaraman, P., Ilakiya, P., Prabhu M.K., Adarsh Ajayan and T Nithyanandhan	Optimizing Front Axle Design for Heavy Commercial Vehicles: A Comprehensive Analysis of Structural and Mechanical Properties	SAE Techpapers	Scopus	Online	2023-2024
29	Prabhu MK., Sivaraman, P., J Dhanaselvam., K Saravanakumar, and Adarsh Ajayan	An IoT-Based System for Monitoring Parameters and Passive Cell Balancing of a Lithium-Ion Battery Pack in a Fixed Environmental Temperature Setting	SAE Techpapers	Scopus	Online	2023-2024
30	Mr. A. S. Manirathnam, Mr. K. Senthil Kumar and Mr. K. Mohan	Fabrication and analysis of foot step power generation in staircases	AIP Conference Proceedings	Scopus	2822/1	2023-2024
31	Mr. K.S. Raghul, and Mr. S. Ram Kumar	Mechanical behavior of sisal and ramie fiber-reinforced composite	AIP Conference Proceedings	Scopus	2822/1	2023-2024
32	Mr. S. Ram Kumar, Mr. P. Arun Karthick, and Mr. K.S. Raghul	Testing and analysis of aluminium 6063 with reinforcement (TiC, W, Zr)	AIP Conference Proceedings	Scopus	2822/1	2023-2024
33	Mr. T. Karthikeyan , Mr. M. Rajeswaran , Mr. S. Naveen kumar & Mr. Sasi kumar	Design of Dedicated Hydraulic Power Pack for Wiper System of Sendzimir Mill	AIP Conference Proceedings	Scopus	2822/1	2023-2024

34	Dr Paul Gregory F,	Characterisation of Erythritol as a potential phase change material	Australian Journal of Mechanical Engineering	ESCI	Online Issue	2023-2024
35	Adarsh Ajayan,P Sivaraman, MK Prabhu, M Mithun, Tharun Shivdas, D Vishnu, K Sriram Karthik	Fully automated school vehicle anti-collision safety system	AIP Conference Proceedings	Scopus	2822/1	2023-2024
36	Adarsh Ajayan,P Sivaraman, MK Prabhu, M Mohammed Razzaq, T Mohamad Saifudheen, K Kousik, B Logesh	Intelligent wall climbing robot	AIP Conference Proceedings	Scopus	2822/1	2023-2024
37	Subramaniyan Chinnasamy, Kalidasan Balasubramanian, Arivazhagan Sampathkumar, Prakash K Babu, Christopher Sathiya Satchi	Feasibility assessment of stepped solar still integrated with hexagram fin: An experimental and numerical approach towards sustainability	Environmental Science and Pollution Research	SCIE	2023	2023-2024
38	AK Azad, P Halder, Qing Wu, MG Rasul, NMS Hassan, Karthickeyan Viswanathan	Experimental investigation of ternary biodiesel blends combustion in a diesel engine to reduce emissions	Energy Conversion and Management: X	ESCI		2023-2024
39	Haewon Byeon, K. Haribabu, Giriraj Kiradoo, V.S. Sreenivasan, M. Sivaprakash, S. Richard and J. Sunil	Evaluation of physiochemical and electrochemical behaviour of reduced graphene functionalized copper nanostructure as an effective corrosion inhibitor	Bulletin of the Chemical Society of Ethiopia	SCIE	38(1)	2023-2024
40	Adarsh Ajayan, Sivaraman P, Dinesh K, Sri Sanjay V, Vijay Aswin S, Kishore R	IoT-Integrated Robotic-Armed Vehicle: Advancements in Gesture Control	Tuijin Jishu/Journal of Propulsion Technology	Scopus	44(5)	2023-2024

41	Dr.N.Mohan Raj, M. Sri Pragash, A.P.Vijayandrahari, Mohanapriya J, P.Danush	IoT Based Supervisory System Embedded Suit for Coal Mine Workers	Journal of Technology	Scopus	11(11)	2023-2024
42	Subramaniyan Chinnasamy, Prakash K Babu, Kalidasan Balasubramanian, Arivazhagan Sampathkumar,	Optimal utilisation of low-grade solar-air source for heat pump water heating using a dual-source evaporator with forced convection	International Communications in Heat and Mass Transfer	SCIE	150	2023-2024
43	Sathishkumar Arumugam, Sachin Kumar, Pramod Sridhara, Srinivasan, Ashwin Prabhu Gnanasekaran, Nathakumar Sivasamy, Thangarajan Sivasankaran	Machine Learning-based Investigation of Wear and Frictional Behavior in Graphite-reinforced Aluminum Nanocomposites	Nanoworld Journal	Scopus	9(3)	2023-2024
44	P.Sivaraman, Santhosh S	Optimizing Sustainable Material Selection For Air Conditioners In A Supply Chain	Materials and Technology	SCIE	57 (6)	2023-2024
45	K. Sabarilal Krishnan and P. Hariharasakthisudhan, K. Logesh, Sathish Kannan	Optimizing the Design Parameters and Nanoclay Content of Thin GLARE Laminate Riveted Joints under Pull-Through Test Using Grey Relational Analysis	SAE Technical paper	Scopus	2023-01-5086	2023-2024
46	M. Arun Prasad, C. Sathiya Narayanan, M. Varatharajulu, C. Pandivelan	Improvement of formability and surface finish of cupro-nickel (70/30) alloy during single point incremental forming process using chrome steel laser ablated ball	Surface Review and Letters	SCIE		2023-2024

47	M. Prabhakaran, D. Jeyasimman, M. Varatharajulu	Insights and Implications: Unraveling Critical Factors in Resistance Spot Welding of Dissimilar Metals through SS 347 and DSS 2205 Welds	Engineering Proceedings	ESCI	59	2023-2024
48	Dr. Santhosh S	Influence of nickel on the microstructural evolution And mechanical properties of Im6-alloy-based Functionally graded composite tubes	Materials and Technology	SCIE	57(6)	2023-2024
49	Dr.N.Mohan Raj	Mini Review: Solid State Bendable Electrode for Flexible Energy Storage Gadgets / Batteries	metszet journal	Scopus	8(12)	2023-2024
50	Dr. P. Hariharasakthisudhan	Ann modeling and optimizing the drilling process parameters for aa5052-glass fiber metal laminate using grey-fuzzy logic approach	Surface Review and Letters	SCIE	online	2023-2024
51	Subramaniyan Chinnasamy, Prakash K Babu, Kalidasan Balasubramanian, Arivazhagan Sampathkumar,	Solar-air source heat pump water heater for scorching climatic condition: energy, exergy, economic and enviroeconomic (4E) exploration for	Applied Thermal Engineering	SCIE	240	2023-2024
52	Prabhu MK, Sivaraman P	Implementing SMED Techniques to Decrease Setup Time for Gear Housing Machines.	Tuijin Jishu/Journal of Propulsion Technology	Scopus	44(6)	2023-2024



53	S. Ida Evangeline, S. Darwin, P. Peter Anandkumar, V.S. Sreenivasan	Investigating the performance of a surrogate-assisted nutcracker optimization algorithm on multi-objective optimization problems	Expert Systems with Applications	SCIE		2023-2024
54	Mr.P Sivaraman	Measuring the Environmental Impact: Key Performance Indicators for Assessing Closed-Loop Supply Chain Sustainability	Tuijin Jishu/Journal of Propulsion Technology	Scopus	44(6)	2023-2024
55	Vinu Kumar S M	Multi-response optimization of wear parameters of flax reinforced epoxy composites using Taguchi-GRA-PCA approach	Indian Journal of Fibre and Textile Research	SCIE	48 (4)	2023-2024
56	Srinivasan R	Optimization of welding parameters for better tensile strength through Coupled Genetic Algorithm and Firefly Algorithm for AA7010-SiC-Al <sub>2</sub> O <sub>3</sub> hybrid composite	Journal of Ceramic Processing Research	SCIE	24(6)	2023-2024
57	Prabhu MK, Sivaraman P	Unraveling the Interplay Between Artificial Intelligence and the Sustainability of Closed-Loop Supply Chains	Tuijin Jishu/Journal of Propulsion Technology	Scopus	45	2023-2024
58	Dr.Santhosh S, Dr. Raghul KS	Sustainable Reverse Logistics Practices And Performance Evaluation of Indian Textile Retailers with Grey Topsis Method	Tuijin Jishu/Journal of Propulsion Technology	Scopus	45	2023-2024
59	Senthil Maharaj Kennedy, Raghav GR, Jeen Robert R B, Manikandaraja G and Selvakumar M	PEEK-based 3D printing: a paradigm shift in implant revolution for healthcare	POLYMER-PLASTICS TECHNOLOGY AND MATERIALS	SCIE	63	2023-2024

60	Dr.N.Mohan raj	Energy Utilization and Production Assessment in a Cement Industry	Pertanika Journal of Science & Technology,	ESCI	32	2023-2024
----	----------------	---	--	------	----	-----------