



SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF MECHATRONICS ENGINEERING

JOURNAL PUBLICATION: ACADEMIC YEAR 2024-2025						
SN o	Name of the Author(s)	Title of the Paper	Name of the Journal	Month and Year of publication	Indexing (Scopus/ WoS)	DOI
1	Dr.S.Madhankumar	Energy and environmental analysis in an indirect solar dryer with flat coil inserted phase change material	Sustainable Energy Technologies and Assessments	Jun 2024	Scopus & WoS	https://doi.org/10.1016/j.seta.2024.103805
2	Ms. S.Kannaki	Performance improvement in electric discharge machining of hardox steel though modified circuits.	Interaction Springer	Jul 2024	Scopus & WoS	https://doi.org/10.1007/s10751-024-02032-7
3	Dr.M.Bhuvanewari	Autonomous Firefighting Robot for Detection and Prevention	International Research Journal of Multidisciplinary Scope	Jul 2024	Scopus & WoS	doi: 10.47857/irjms.2024.v05i03.0922
4	Dr.G.Veerappan & Dr.D.Pritima	Investigation on materials removal rate and surface roughness of temperature resisted Waspaloy during electric spark machining utilizing gray relational analysis	AIP advanced	Aug 2024	Scopus & WoS	https://doi.org/10.1063/5.0220951
5	Dr. D.Pritima	Fabrication and	Thermal	Aug	Scopus & WoS	https://doi.org/10.1016/j.tsep



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	& Dr.G.Veerappan	development of high temperature resisted bronze composites using 3D printed gate pattern through stir casting route	Science and Engineering Progress	2024		2024.102710
6	Dr. D.Pritima & Dr. G.Veerappan	Mechanical Properties and Corrosion Behavior of SiC Reinforced High Entropy Alloy (Ni-Co-Fe-Ti) matrix Composites Produced by Microwave and Conventional sintering	Surface Topography: Metrology and Properties	Oct 2024	Scopus & WoS	DOI 10.1088/2051-672X/ad83e5
7	Dr. S.Madhankumar	Integrating Computational Models and Machine Learning for Corrugated Absorber Plate Solar Collector Thermal Predictions	Process Safety and Environmental Protection	Aug 2024	Scopus & WoS	https://doi.org/10.1016/j.psep.2024.05.069
8	Dr. Madhankumar, S.	Drying kinetics, energy, colour and FTIR spectroscopy analysis on indirect solar dryer with paraffin wax and glass pieces as thermal storage	Solar Energy	Sep 2024	Scopus & WoS	10.1016/j.solener.2024.112925



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		material				
9	Dr. Madhankumar.S	Prediction of red chilli drying performance in solar dryer with natural energy storage element using machine learning models	Journal of Energy Storage	Nov 2024	Scopus & WoS	https://doi.org/10.1016/j.est.2024.113825
10	Dr. Madhankumar S.	Drying kinetics, energy, colour and FTIR spectroscopy analysis on indirect solar dryer with paraffin wax and glass pieces as thermal storage material	Solar Energy	Nov 2024	Scopus & WoS	https://doi.org/10.1016/j.solen.2024.112925
11	Dr.G.Veerappan	Synthesis of semi sintered nickel bronze electrode for electric discharge surface alloying of silicon steel and the properties of coated surface	Results in Surfaces and Interfaces	Jan 2025	Scopus & WoS	https://doi.org/10.1016/j.rsufi.2024.100400
12	Dr.R.Gopinathan	Certain investigations on performance analysis of different converter designs for smart micro-grid systems	International Journal of Power Electronics and Drive Systems	March 2025	Scopus & WoS	DOI: 10.11591/ijped.v16.i1.pp431-439



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13	Dr.G.Veerappan	Parametric analysis in the machining of gun metal using computer numerical control turning process	Interactions	Feb 2025	Scopus & WoS	https://doi.org/10.1007/s10751-025-02269-w
14	Dr.G.Veerappan	Microstructure and Properties of Silicon Carbide and Yttrium Oxide Reinforced Copper Matrix Hybrid Composites (Cu-SiC-Y2O3)	Materials Research	Feb 2025	Scopus & WoS	https://doi.org/10.1590/1980-5373-MR-2024-0406
15	Dr.G.Veerappan	Experimental and numerical analysis on the cutting force, cutting temperature, and tool wear of alloy steel (4340) during turning process	AIP advanced	Nov 2024	Scopus & WoS	https://doi.org/10.1063/5.0227710
16	Dr. K.Ananthi	Assessing the Thermal Insulation Properties of Thermoplastic Bricks for Energy-Efficient Building Solutions	Matéria (Rio J.)	Dec 2024	Scopus	https://doi.org/10.1590/1517-7076-RMAT-2024-0583
17	S.Nithyapriya	Performance Analysis of 7 level multilevel inverter for Power Quality Improvement	International Journal of Applied Power Engineering	March 2025	Scopus & WoS	10.11591/ijape.v14.i1.pp46-54
18	Dr. T.Vignesh	Detecting ferric	Microchemical	Jan	Scopus & WoS	https://doi.org/10.1016/j.micro



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		oxide adulteration in chilli Powder: A Multimodal analytical approach for enhanced food safety	Journal	2025		c.2024.112332
19	Dr. T.Vignesh	Multi-Spectral Techniques for Detecting Adulterants in Turmeric Powder	Microchemical Journal	Feb 2025	Scopus & WoS	https://doi.org/10.1016/j.microc.2025.112830
20	Dr S.Raja	Compression After Impact (CAI) Behavior After Low-Velocity Impact (LVI) of Agro-Waste- Based Pineapple Leaf Fiber (PALF) and Kevlar Fabrics-Reinforced Polyester Composites for Automotive Applications	Polymer composite	May 2025	Scopus & WoS	https://doi.org/10.1002/pc.30077
21	Dr. Madhankumar S.	Robust optimization-based energy management system for integrating renewable energy resources and smart grid technology	Sustainable Energy Technologies and Assessments	March 2025	Scopus & WoS	https://doi.org/10.1016/j.seta.2025.104235



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CONFERENCE PUBLICATION: ACADEMIC YEAR 2024-2025

SNo	Name of the Author(s)	Title of the Paper	Name of the Journal	Month and Year of publication	Indexing (Scopus/ WoS)	DOI
1	Dr.S.Balasubramani	Optimization of spray-painting process parameters: A review	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0246710
2	Dr.S.Balasubramani	Design and fabrication of automatic guava cutting machine	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0246711
3	Dr.S.Balasubramani	Automatic Hose Cutting Machine for Small Scale Industries	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0246685
4	Dr.R.Manikandan	Autonomous Mobile Robot for Gas Leak Localization	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0246678
5	Dr.L.Feroz Ali	Performance Enhancement through Air Intake Restrictor Tuning by Fluid Flow Analysis for Formula Vehicle	SAE International	Oct 2024	Scopus	https://doi.org/10.4271/2024-01-5217
6	Dr.L.Feroz Ali	Optimization of spray-painting process parameters: A review	SAE International	Oct 2024	Scopus	https://doi.org/10.4271/2024-01-5226
7	Ms.S.Kannaki	Fabrication of multi-	AIP Conference	Feb 2025	Scopus	10.1063/5.0246234



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		Purpose 3D Printer (3D Printer, CNC & Laser Engraving)	Proceedings			
8	Ms.S.Kannaki	Design and Fabrication of Material Handling and Machine Vision System for SCARA	AIP Conference Proceedings	Feb 2025	Scopus	10.1063/5.0246233
9	Dr.K.Ananthi	Preface: International Conference on Innovations in Robotics, Intelligent Automation and Control (ICIRIAC 2024)	AIP Conference Proceedings	Feb 2025	Scopus	https://doi.org/10.1063/12.0034212
10	Dr.K.Ananthi	Design and Fabrication of Elbow Mechanism Based Material Handling System	IEEE 10th International Conference on Advanced Computing and Communication Systems, ICACCS	Mar 2025	Scopus	10.1109/ICACCS60874.2024.10716960
11	Dr.K.Ananthi	An Analysis of Radio Frequency Radiation Emitted by Smartphones	IEEE 8th International Conference on I- SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)	Oct 2024	Scopus	10.1109/I-SMAC61858.2024.10714888
12	Dr.K.Ananthi	A Review on Smartphone Charger: Technologies and Challenges	IEEE - 2024 5th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks	Apr 2024	Scopus	10.1109/ICICV62344.2024.00020



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			(ICICV)			
13	Dr.M.Bhuvaneshwari	Solar Radiation Forecast Utilizing an Artificial Neural Network Model with Three Distinct Learning Algorithms	International Conference on Trends in Automotive Parts Systems and Applications	Jan 2025	Scopus	10.47857/irjms.2024.v05i03.0922
14	Dr.M.Bhuvaneshwari	Forecasting the Material Removal Rate of Inconel 718 Alloy in Electrochemical Machining through Machine Learning Approaches	SAE Technical Paper	Feb 2025	Scopus	https://doi.org/10.4271/2023-01-5174
15	Dr.M.Bhuvaneshwari	Prediction of ultimate tensile strength of dissimilar substances welding using random forest regression	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.4271/2024-01-5253
16	Dr.M.Bhuvaneshwari	Design and fabrication of robotic operating system based autonomous mobile robot for education and material handling purpose	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0246511
17	Dr.S.Dinesh	Design and Fabrication of AGV for Material Handling Using RFID	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0246914
18	Ms.S.Nithya Priya	Solar Powered Remote Controlled Grass Cutter	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0246622



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19	Ms.S.Nithya Priya	Design and Fabrication of Multipurpose Agricultural Robot	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0246621
20	Mr.S.Panneerselvam	Design and fabrication of automated yarn spool handling system	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0246578
21	Mr.S.Panneerselvam	Design and implementation of borewell child rescue system	AIP conference proceedings	Feb 2025	Scopus	https://doi.org/10.1063/5.0248529

BOOK CHAPTER 2024-2025						
SNo	Name of the Author(s)	Title of the Paper	Name of the Journal/ Book	Month and Year of publication	Indexing (Scopus/ WoS)	DOI/ISBN
1	Dr.D.Pritima	Removal of Chromium in Soil by Electrokinetics using Seaweed as Permeable Reactive Barrier	Advances in Chemical Sciences	June 2024	ISBN	ISBN: 978-93-5834-662-6
2	Dr.K.Ananthi	Early Ethical Considerations and Societal Impacts on Gender Health	Taylor and Francis	June 2024	Scopus	DOI:10.1201/9781003473435-12



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3	Dr.M.Bhuvaneshwari	5G Revolution in health care: shaping the future of medicine		June 2024	ISBN	https://bentham-open-editorial.com/book/9789815274134/contributors/
4	IoT Fusion: Empowering Decision-Making with Integrated Intelligence	IoT Fusion: Empowering Decision-Making with Integrated Intelligence	Decision Support Systems Springer	June 2024	ISBN	DOI: 10.1007/978-3-031-89700-9_2