



**DEPARTMENT OF MECHATRONICS ENGINEERING**

<b>JOURNAL PUBLICATION: ACADEMIC YEAR 2023-2024</b>						
<b>SN o</b>	<b>Name of the Author(s)</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>Month and Year of publication</b>	<b>Indexing (Scopus/ WoS)</b>	<b>DOI</b>
1	Dr. T.A.Selvan	Exploring the Metallurgical and Mechanical Characteristics of Magnesium/Silicon Carbide Surface Composites Manufactured via Friction Stir Processing	Journal of The Institution of Engineers (India): Series D	Oct 2023	Scopus & WoS	<a href="https://doi.org/10.1007/s40033-023-00568-6">https://doi.org/10.1007/s40033-023-00568-6</a>
2	Dr.D.Pritima	Investigations on Silicon Carbide Reinforced High Entropy Alloy (CoCrNiMnFe) matrix Composites Produced by Powder Metallurgy Process	Silicon	Jul 2023	Scopus & WoS	<a href="https://doi.org/10.1007/s12633-023-02369-8">https://doi.org/10.1007/s12633-023-02369-8</a>



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3	Dr. D.Pritima	Friction Stir welding Experimentation and Surface Morphology on Niobium Aluminium 7068 Joint	International Journal of Vehicle Structures and Systems	Dec 2023	Scopus	<a href="https://doi.org/10.4273/ijvss.15.4.05">https://doi.org/10.4273/ijvss.15.4.05</a>
4	Dr.D.Pritima	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	Dec 2023	Scopus & WoS	<a href="https://doi.org/10.36410/jcpr.2023.24.6.1050">https://doi.org/10.36410/jcpr.2023.24.6.1050</a>
5	Dr.D.Pritima	Enhancing the fatigue strength of stir-casted Al7075-SiC composites through heat treatment and shot peening	Physica scripta	Sep 2023	WoS	DOI 10.1088/1402-4896/acf3b7
6	Dr.R.Gopinathan	Influences of various metal oxide-based nanosized particles-added algae biodiesel on engine characteristics	Energy	Aug 2023	Scopus & WoS	<a href="https://doi.org/10.1016/j.energy.2023.128633">https://doi.org/10.1016/j.energy.2023.128633</a>



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7	Dr.R.Gopinathan	Battery-Based Energy Storage and SolarSolar Technologies Integrated for Power Matching and Quality Improvement Using Artificial Intelligence	Electric Power Components and Systems	Jun 2023	Scopus & WoS	<a href="https://doi.org/10.1080/15325008.2023.2220323">https://doi.org/10.1080/15325008.2023.2220323</a>
8	Dr. G.Veerappan	Effects of ZnO addition on the microstructure/corrosion, wear and mechanical properties of sintered Mg-Al matrix composites	Journal of Alloys and Compounds	Oct 2023	Scopus & WoS	<a href="https://doi.org/10.1016/j.jallcom.2023.170500">https://doi.org/10.1016/j.jallcom.2023.170500</a>
9	Dr.G.Veerappan	Effect of Copper on Mechanical Properties and Corrosion Behavior of Powder Metallurgy Processed Ni–Co–Cr–Fe–Mn–Cux High Entropy Alloy	Arabian Journal for Science and Engineering	Mar 2023	Scopus & WoS	<a href="https://doi.org/10.1007/s13369-022-07041-8">https://doi.org/10.1007/s13369-022-07041-8</a>
10	Dr. J.Justin Maria Hilary	Friction and wear optimization of SiC/graphite reinforced AZ31 hybrid composite using Taguchi method	International Journal on Interactive Design and Manufacturing (IJIDeM)	Dec 2023	Scopus & WoS	<a href="https://doi.org/10.1007/s12008-023-01687-w">https://doi.org/10.1007/s12008-023-01687-w</a>



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11	Dr.J.Justin Maria Hilary	Analysis of interfacial heat transfer coefficients in squeeze casting of AA6061 aluminum alloy with H13 steel die: Impact of section thickness on thermal behavior	Thermal Science	Jan 2024	Scopus & WoS	<a href="https://doi.org/10.2298/TSCI230310272K">https://doi.org/10.2298/TSCI230310272K</a>
12	Dr.S.Madhankumar	A review on the latest developments in solar dryer technologies for food drying process	Sustainable Energy Technologies and Assessments	Aug 2023	Scopus & WoS	<a href="https://doi.org/10.1016/j.seta.2023.103298">https://doi.org/10.1016/j.seta.2023.103298</a>
13	Dr.S.Madhankumar	Environmental Challenges and Economic Assessment of Methanol Production Process	Reference Module in Chemistry, Molecular Sciences and Chemical Engineering	Feb 2024	Scopus & WoS	<a href="https://doi.org/10.1016/B978-0-443-15740-0.00041-0">https://doi.org/10.1016/B978-0-443-15740-0.00041-0</a>
14	Dr.S.Madhankumar	Co-production of Bi-methanol From Biomass	Reference Module in Chemistry, Molecular Sciences and Chemical	Feb 2024	Scopus & WoS	<a href="https://doi.org/10.1016/B978-0-443-15740-0.00036-7">https://doi.org/10.1016/B978-0-443-15740-0.00036-7</a>



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			Engineering			
15	Dr.S.Madhankumar	Performance analysis of indirect solar dryer with natural heat energy retention substances for drying red chilli	Sustainable Energy Technologies and Assessments	Feb 2024	Scopus & WoS	<a href="https://doi.org/10.1016/j.seta.2024.103706">https://doi.org/10.1016/j.seta.2024.103706</a>
16	Dr.S.Dinesh	Computer vision for unmanned aerial vehicles in agriculture: applications, challenges, and opportunities	The Scientific Temper	Sep 2023	Scopus	10.58414/SCIENTIFICTEMPER.2023.14.3.61
17	Dr .M.Lydia	Wind speed and wind power forecasting models	Energy & Environment	Jan 2024	Scopus	<a href="https://doi.org/10.1177/0958305X241228515">https://doi.org/10.1177/0958305X241228515</a>



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### CONFERENCE PUBLICATION: ACADEMIC YEAR 2023-2024

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. M. Lydia	Temporal Dengue Outbreak Prediction from Climatic Variables using Finite Element Machines for Regression	International Conference on Systems, Signals, and Image Processing	Jul 2023	Scopus	10.1109/IWSSIP58668.2023.10180266
2	Dr. M. Lydia	A Historic-Best Particle Swarm Optimization Approach for Trust-based Routing in Smart Grid Networks	International Conference on Systems, Signals, and Image Processing	Jul 2023	Scopus	10.1109/IWSSIP58668.2023.10180289
3	Dr.T.A.Selvan	Optimization of the microelectrochemical drilling response variables of Inconel 718 alloy by grey relational analysis	Materials Today: Proceedings	Apr 2024	Scopus	<a href="https://doi.org/10.1016/j.matpr.2024.04.075">https://doi.org/10.1016/j.matpr.2024.04.075</a>
4	Dr.T.A.Selvan	Investigation on Turning Parameters of Austempered Ductile Iron Using Response Surface Methodology Approach	SAE Technical Paper	Feb 2024	Scopus	<a href="https://doi.org/10.4271/2023-01-5170">https://doi.org/10.4271/2023-01-5170</a>
5	Dr.D.Pritima	Design and Fabrication of Adhesive Application System for Magnets in Motors	2023 4th International Conference on Electronics and Sustainable Communication Systems, ICESC	Aug 2023	Scopus	10.1109/ICESC57686.2023.10193106



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			2023 - Proceedings,			
6	Dr.D.Pritima	Design and Fabrication of Autonomous Robot Butler	2022 International Conference on Innovations in Robotics, Intelligent Automation and Control, ICIRIAC 2022	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0176734">https://doi.org/10.1063/5.0176734</a>
7	Dr.V.Narasimharaj	Smart Farming: Intelligent Animal Detection Framework in Agriculture using IoT Sensors	IEEE Conference	Jul 2023	Scopus	doi: <a href="https://doi.org/10.1109/ICECAA58104.2023.10212297">10.1109/ICECAA58104.2023.10212297</a>
8	Dr.V.Narasimharaj	A deep learning framework for prediction of Heart Diseases from Clinical Observations	IEEE Conference	Aug 2023	Scopus	doi: <a href="https://doi.org/10.1109/ICAISS58487.2023.10250712">10.1109/ICAISS58487.2023.10250712</a>
9	Dr.S.Balasubramani	Regenerative suspension system using linear magnet system	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175851">https://doi.org/10.1063/5.0175851</a>
10	Dr.S.Balasubramani	Survey on natural fibre composite: Manufacturing techniques, mechanical behaviour and various chemical treatments	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0176045">https://doi.org/10.1063/5.0176045</a>
11	Dr.S.Balasubramani	Performance study on draft tube in Kaplan turbine	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175832">https://doi.org/10.1063/5.0175832</a>
12	Dr.S.Balasubramani	Machinability studies on aluminium and its alloys - A literature review	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0176101">https://doi.org/10.1063/5.0176101</a>
13	Dr.S.Balasubramani	Studies on particle separation equipment – A review	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175829">https://doi.org/10.1063/5.0175829</a>



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14	Dr.R.Manikandan	Studies on developing a humanoid facial expressive robot	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0176037">https://doi.org/10.1063/5.0176037</a>
15	Dr.R.Manikandan	Actuation of Braille text into a Braille code and Braille board with navigation system	IEEE Conference	Jun 2024	Scopus	10.1109/ICONSTEM60960.2024.10568883
16	Dr.N.Mithran	Security Framework for Net Gun-Equipped Unmanned Aerial Vehicles	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175945">https://doi.org/10.1063/5.0175945</a>
17	Dr.K.Ananthi	Efficient Warehouse Management System with Automated Storage and Retrieval	2023 8th International Conference on Communication and Electronics Systems (ICCES)	Aug 2023	Scopus	10.1109/ICCES57224.2023.10192604
18	Dr.K.Ananthi	A Study on Various Types of Lamps used in Domestic Sector and their Impact on Energy Efficiency	2023 Second International Conference on Electronics and Renewable Systems (ICEARS)	2023	Scopus	10.1109/ICEARS56392.2023.10085278
19	Dr.K.Ananthi	Automated sand depositing system for sand casting process	AIP Conference Proceedings	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175936">https://doi.org/10.1063/5.0175936</a>
20	Dr.J.Indirapriyadharshini	Prediction of Weather Forecasting with Long Short-Term Memory using Deep Learning	2023 4th International Conference on Smart Electronics and Communication (ICOSEC)	Oct 2023	Scopus	<a href="https://doi.org/10.1109/ICOSEC58147.2023.10276273">https://doi.org/10.1109/ICOSEC58147.2023.10276273</a>
21	Dr.J.Indirapriyadharshini	Design and Fabrication of Autonomous Robot for Crop Yield Prediction and Analysis using	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175892">https://doi.org/10.1063/5.0175892</a>



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		Machine Learning Algorithms				
22	Dr.J.Indirapriyadhar shini	Design and Fabrication of 5 Degrees of Freedom Robotic Arm	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175889">https://doi.org/10.1063/5.0175889</a>
23	Dr.J.Indirapriyadhar shini	Next-Generation Digital Healthcare Cloud Folder for Patients	AIP Conference series	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175888">https://doi.org/10.1063/5.0175888</a>
24	Dr.J.Indirapriyadhar shini	Design and Fabrication of IoT Based Mechanized Loading and Unloading of Gunny bags in Godowns	2023 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS)(IEEE Xplore)	Dec 2023	Scopus	<a href="https://doi.org/10.1109/ICSSAS57918.2023.10331656">https://doi.org/10.1109/ICSSAS57918.2023.10331656</a>
25	Dr.J.Indirapriyadhar shini	Design and Fabrication of Smart Inspection System for Industrial Products Using ML Algorithm	2024 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS)(IEEE Xplore)	Dec 2023	Scopus	<a href="https://doi.org/10.1109/ICSSAS57918.2023.10331741">https://doi.org/10.1109/ICSSAS57918.2023.10331741</a>
26	Dr.J.Indirapriyadhar shini	Design and fabrication of automatic sterilization system for industrial tools	AIP conference proceedings	June 2023	Scopus	<a href="https://doi.org/10.1063/5.0113887">https://doi.org/10.1063/5.0113887</a>
27	Dr.J.Indirapriyadhar shini	Design and fabrication of automatic emergency braking system	AIP conference proceedings	June 2023	Scopus	<a href="https://doi.org/10.1063/5.0113868">https://doi.org/10.1063/5.0113868</a>
28	Ms.S.Nithya Priya	Automatic Seed Dessinator	AIP conference proceedings .	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175958">https://doi.org/10.1063/5.0175958</a>



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29	Ms.S.Nithya Priya	"Revolutionizing Agriculture:Innovating an Autonomous Robot for Early Plant Disease Detection,	International Conference on Ubiquitous computing and Intelligent Information Systems	Apr 2024	Scopus	DOI: 10.1109/ICUIS60567.2023.00062
30	Ms.S.Nithya Priya	Design and Fabrication of Solar Tracking System with Low Power Consumption	International Conference on Ubiquitous computing and Intelligent Information Systems	Apr 2024	Scopus	DOI: 10.1109/ICUIS60567.2023.00073
31	Mr.S.Panneerselvam	Innovative Study on Friction Stir Welding	AIP Conference Proceeding	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175891">https://doi.org/10.1063/5.0175891</a>
32	Mr.S.Panneerselvam	Design of plant incubation system	AIP Conference Proceeding	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175890">https://doi.org/10.1063/5.0175890</a>
33	Ms.R.Priyadharshini	Component Carrying Automated Guided Vechile	AIP Conference Proceeding	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0176789">https://doi.org/10.1063/5.0176789</a>
34	Ms.R.Priyadharshini	Six-Wheeled Material Handling Robot with 3-DOF Robotic Arm	AIP Conference Proceeding	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0176790">https://doi.org/10.1063/5.0176790</a>
35	Mr.M.Vigneshwaran	Effect of kapok seed powder on mechanical and water intake properties of untreated kenaf fiber composites	Materials Today proceeding	Dec 2023	Scopus	<a href="https://doi.org/10.1016/j.matpr.2023.01.04">https://doi.org/10.1016/j.matpr.2023.01.04</a>
36	Ms.R.Priyadharshini	Design and Fabrication of Smart Electric Bike	AIP Conference Proceeding	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175942">https://doi.org/10.1063/5.0175942</a>
37	Mr.T.Vignesh	Detection of Adulteration in Spices, Milk, Fruits	IEEE - 2023 14th International Conference on Computing Communication and Networking Technologies	Nov 2023	Scopus	<a href="https://doi.org/10.1109/ICCCN T56998.2023.10306414">https://doi.org/10.1109/ICCCN T56998.2023.10306414</a>



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38	Mr.T.Vignesh	Braille board actuates text into braille code using solenoid actuator	AIP Conference Proceeding	Dec 2023	Scopus	<a href="https://doi.org/10.1063/5.0175933">https://doi.org/10.1063/5.0175933</a>

BOOK CHAPTER 2023-2024						
SNo	Name of the Author(s)	Title of the Paper	Name of the Journal	Month and Year of publication	Indexing (Scopus/ WoS)	DOI/ISBN
1	Dr.J.Indirapriyadharshini	Artificial Intelligence for Smart in Match Winning Prediction in Twenty20 Cricket League Using Machine Learning Model	Artificial Intelligence for Smart Healthcare	June 2023	Scopus	<a href="https://doi.org/10.1007/978-3-031-23602-0_3">https://doi.org/10.1007/978-3-031-23602-0_3</a>
2	Dr.K.Ananthi	The Impact of 5G Technology on the Digital Supply Chain and Operations Management Landscape	Applications of New Technology in Operations and Supply Chain Management	Mar 2024	Scopus	<a href="https://doi.org/10.4018/979-8-3693-1578-1.ch015">DOI: 10.4018/979-8-3693-1578-1.ch015</a>
3	Dr.M.Bhuvaneshwari	Autonomous Forklifts: Revolutionizing Material Handling in Factories	Lambert Academic Publishing	Nov 2023	ISBN	ISBN:6206845796
4	S.Nithya Priya	Design and	Lambert	Nov 2023	ISBN	978-620-7-44771-8



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		fabrication of Automated Pneumatic Vulcanizing Machine	Academic Publishing			
5	Dr.S.Madhankumar	BOOK:Passive Solar Tracking System	Lambert Academic Publishing	Nov 2023	ISBN	ISBN-13: 978-6206845164
6	Dr Indirapriyadharshini	BOOK :Sensor And Transducer	Scientific International Publishing House			ISBN -9789357573542