



## SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

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Kuniamuthur, Coimbatore – 641008

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### DEPARTMENT OF MECHATRONICS ENGINEERING

#### JOURNAL PUBLICATION: ACADEMIC YEAR 2021-2022

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, exergy and environmental impact analysis on the novel indirect solar dryer with fins inserted phase change material	Renewable Energy	Oct 2021	Scopus/WoS	<a href="http://dx.doi.org/10.1016/j.renene.2021.05.085">http://dx.doi.org/10.1016/j.renene.2021.05.085</a>
2	Dr. K. Ananthi	Enhancing Power Quality Using Packed U Cell 5 Multilevel Inverter-Based Shunt Active Power Filter with Fuzzy Controller	International Journal of Fuzzy Systems	Nov 2021	Scopus/WoS	<a href="http://dx.doi.org/10.1007/s40815-021-01194-8">http://dx.doi.org/10.1007/s40815-021-01194-8</a>
3	Dr. L Feroz Ali	Microstructural and Wear Behaviour of Al 6063–W Nanocomposites Developed Using Friction Stir Processing	Metals & Materials International, Springer	Jun 2021	Scopus/WoS	<a href="https://doi.org/10.1007/s12540-021-01068-6">https://doi.org/10.1007/s12540-021-01068-6</a>
4	Dr.G.Veerappan	Experimental Investigations on the Mechanical	Silicon	Sep 2021	Scopus/WoS	<a href="https://doi.org/10.1007/s12633-021-01363-2">https://doi.org/10.1007/s12633-021-01363-2</a>



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		Properties, Microstructure and Corrosion Effect of Cu-20Al-4Ni/SiC Composites Synthesized Using Powder metallurgy Route				
5	Dr.G.Veerappan	Microstructure, mechanical and wear properties of boron carbide reinforced nickel alloy composites processed by bottom pouring type stir casting process	Surface Topography: Metrology and Properties	Mar 2022	Scopus/WoS	<a href="https://doi.org/10.1088/2051-672X/ac5ae5">https://doi.org/10.1088/2051-672X/ac5ae5</a>
6	Dr. L Feroz Ali	Notch tensile and dry sliding wear studies on Mg-Nd- Gd-Zn alloy	Surface Topography: Metrology and Properties	Mar 2022	Scopus/WoS	<a href="https://doi.org/10.1088/2051-672X/ac5ebf">https://doi.org/10.1088/2051-672X/ac5ebf</a>
7	Dr. S. Balasubramani	Investigation of Mechanical Properties of Sansevieria Cylindrica Fiber/Polyester Composites	Advances in Materials Science and Engineering	Feb 2022	Scopus/WoS	<a href="http://dx.doi.org/10.1155/2022/2180614">http://dx.doi.org/10.1155/2022/2180614</a>
8	Dr. G.Veerappan	Surface Modification of Strenx 900 Steel Using Electrical	Materials Research	Feb 2022	Scopus/WoS	<a href="https://doi.org/10.1590/1980-5373-MR-2021-0390">https://doi.org/10.1590/1980-5373-MR-2021-0390</a>



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		Discharge Alloying Process with Cu-10Ni- CrxPowder Metallurgy Sintered Electrode				
9	Dr. M. Bhuvaneshwari	Fuzzy based clustering in CWPSN using machine learning model	Indian Journal of Radio & Space Physics	Jun 2021	Scopus	123456789/58755
10	Dr. V.Narasimharaj	A Comparative study of additive and subtractive manufacturing	Advances in Materials science and Engineering	Apr 2022	Scopus	<a href="https://doi.org/10.1155/2022/6892641">https://doi.org/10.1155/2022/6892641</a>
11	Dr. G.Veerappan	Artificial Neural Network Modeling of Abrasion Loss and Surface Roughness of Crab Carapace Impregnated Coir Vinyl Ester Composites	Advances in Materials Science and Engineering	Apr 2022	Scopus	<a href="https://doi.org/10.1155/2022/2158210">https://doi.org/10.1155/2022/2158210</a>
12	Dr. J.Justin Maria Hillary	Investigation on Microstructural Characterization and Mechanical Behaviour of Aluminium 6061 – CSFA / Sicp Hybrid Metal Matrix Composites	Silicon, Springer	Apr 2022	Scopus/WoS	<a href="https://doi.org/10.1007/s12633-022-01881-7">https://doi.org/10.1007/s12633-022-01881-7</a>



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### CONFERENCE PUBLICATION: ACADEMIC YEAR 2021-2022

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. V. Narasimharaj	Experimental study of mechanical properties of AA6061 and AA7075 alloy joints using friction stir welding	Materials Today: Proceedings	Oct 2021	Scopus	<a href="http://dx.doi.org/10.1016/j.matpr.2021.04.628">http://dx.doi.org/10.1016/j.matpr.2021.04.628</a>
2	Dr. D. Pritima	Performance of electrical energy based unconventional machining processes – Review	Materials Today: Proceedings	Feb 2021	Scopus	<a href="https://doi.org/10.1016/j.matpr.2020.12.749">https://doi.org/10.1016/j.matpr.2020.12.749</a>
3	Ms. S. Nithya Priya	Design and fabrication of filament extruder with spooler	Materials Today: Proceedings	2021	Scopus	<a href="https://doi.org/10.1016/j.matpr.2021.03.103">https://doi.org/10.1016/j.matpr.2021.03.103</a>
4	Dr. M. Lydia	Soft computing models for forecasting day-ahead energy consumption	Materials Today: Proceedings	Mar 22	Scopus	<a href="https://doi.org/10.1016/j.matpr.2022.03.003">https://doi.org/10.1016/j.matpr.2022.03.003</a>
5	Dr. T. A. Selvan and Mr. S. Madhankumar	Taguchi-based Grey Relational Study for Multiple Criterion Optimization on Process Variables for Micro Electro-chemical Machining of Inconel Super-	Materials today: Proceeding	Apr 2022	Scopus	<a href="https://doi.org/10.1016/j.matpr.2022.04.060">https://doi.org/10.1016/j.matpr.2022.04.060</a>



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		alloy				
6	Dr. T. A. Selvan and Mr. S. Madhankumar	Surface Roughness Assessments and Comparative Study of Inconel 625 and Inconel 718 Alloys after Micro Electrochemical Machining	Materials today: Proceeding	Apr 2022	Scopus	<a href="https://doi.org/10.1016/j.matpr.2022.04.076">https://doi.org/10.1016/j.matpr.2022.04.076</a>
7	Dr. T. A. Selvan and Mr. S. Madhankumar	Electrochemical machining of aluminium 7075 alloy, silicon carbide, and fly ash composites: An experimental investigation of the effects of variables on material removal rate	Materials today: Proceeding	Apr 2022	Scopus	<a href="https://doi.org/10.1016/j.matpr.2022.04.054">https://doi.org/10.1016/j.matpr.2022.04.054</a>
8	S.Madhankumar	Design and Modelling of Automated Hot Oven Food Dehydrator	IEEE Xplore - International Conference on Advanced Computing and Communication Systems (ICACCS)	Jun 2021	Scopus	<a href="https://doi.org/10.1109/ICACCS51430.2021.9441881">https://doi.org/10.1109/ICACCS51430.2021.9441881</a>
9	S.Madhankumar	Automated Moisture Remover for Drying Agricultural Products	IEEE Xplore - International Conference on Advanced Computing and Communication Systems	Jun 2021	Scopus	<a href="https://doi.org/10.1109/ICACCS51430.2021.9441812">https://doi.org/10.1109/ICACCS51430.2021.9441812</a>



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			(ICACCS)			
10	S.Madhankumar	Design and Modelling of Autonomous Mobile Robot for Material Handling	IEEE Xplore - International Conference on Advanced Computing and Communication Systems (ICACCS)	Jun 2021	Scopus	<a href="https://doi.org/10.1109/ICACCS51430.2021.9441831">https://doi.org/10.1109/ICACCS51430.2021.9441831</a>
11	Mr.T.Vignesh	Pipeline for Development of 3 Dimensional motion animation using the 2 Dimensional video	2021 7th International Conference on Advanced Computing and Communication Systems, ICACCS 2021,	Jun 2021	Scopus	<a href="https://doi.org/10.1109/ICACCS51430.2021.9442059">https://doi.org/10.1109/ICACCS51430.2021.9442059</a>
12	Ms.S.Nithya Priya	Autonomous Supermarket Robot Assistance Using Machine Learning	2021 7th International Conference on Advanced Computing and Communication Systems, ICACCS 2021,	Jun 2021	Scopus	<a href="https://doi.org/10.1109/ICACCS51430.2021.9441833">https://doi.org/10.1109/ICACCS51430.2021.9441833</a>
13	Ms. K. Ananthi	Design and Fabrication of Color based Automatic Yarn Carrier Sorting Machine	IEEE Xplore - 7th International Conference on Advanced Computing and Communication Systems (ICACCS) 2021	Jun 2021	Scopus	<a href="https://doi.org/10.1109/ICACCS51430.2021.9441995">https://doi.org/10.1109/ICACCS51430.2021.9441995</a>
14	Ms. K. Ananthi	Design and Fabrication of IoT	IEEE Xplore - 7th International	Jun 2021	Scopus	<a href="https://doi.org/10.1109/ICACCS51430.2021.9441701">https://doi.org/10.1109/ICACCS51430.2021.9441701</a>



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		based inventory control system	Conference on Advanced Computing and Communication Systems (ICACCS) 2021			
15	Mr.P.M.Arunkumar	Simultaneous Localization and Mapping based Autonomous Lawn Mower	IEEE Xplore - International Conference on Advanced Computing and Communication Systems (ICACCS)	Jun 2021	Scopus	<a href="https://doi.org/10.1109/ICACCS51430.2021.9441727">https://doi.org/10.1109/ICACCS51430.2021.9441727</a>
16	Dr. M. Lydia	A Comprehensive Overview on Impact of Trust Models in Internet of Things	2021 2nd International Conference on Smart Electronics and Communication (ICOSEC)	Nov 2021	Scopus	<a href="https://doi.org/10.1109/ICOS51865.2021.9591821">https://doi.org/10.1109/ICOS51865.2021.9591821</a>
17	Ms. S. Kannaki	Design and Fabrication of Automated Cloth Pulling Machine for Shed Work	2021 Smart Technologies, Communication and Robotics (STCR)	Nov 2021	Scopus	<a href="https://doi.org/10.1109/STCR51658.2021.9588949">https://doi.org/10.1109/STCR51658.2021.9588949</a>
18	Mr. T. Vignesh	Technology in Design Aspect of BIN Bot Robot	2021 Smart Technologies, Communication and Robotics (STCR)	Nov 2021	Scopus	<a href="https://doi.org/10.1109/STCR51658.2021.9588949">https://doi.org/10.1109/STCR51658.2021.9588949</a>
19	Dr. D. Pritima	IoT Secure Framework for Wearable Sensor Data for E-health	IEEE Xplore - 2021 Fifth International Conference on	Dec 2021	Scopus	<a href="https://doi.org/10.1109/I-SMAC52330.2021.9640977">https://doi.org/10.1109/I-SMAC52330.2021.9640977</a>



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		System	I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)			
20	Dr. D. Pritima	IoT Based Industry Automated Sheet Metal Feeder	IEEE Xplore - 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)	Dec 2021	Scopus	<a href="https://doi.org/10.1109/I-SMAC52330.2021.9640826">https://doi.org/10.1109/I-SMAC52330.2021.9640826</a>
21	Ms. M. Bhuvanewari	Resource Allocation by Fuzzy Based Cluster Using Greedy Algorithm for Secure Communication	2021 5th International Conference on Electronics, Communication and Aerospace Technology (ICECA)	Jan 2022	Scopus	<a href="https://doi.org/10.1109/ICECA52323.2021.9675912">https://doi.org/10.1109/ICECA52323.2021.9675912</a>
22	Mr. P. M. Arunkumar	Design and Implementation of Secondary Positioner for Improving the OEE of Robotic Welding System	Indian Conference on Antennas and Propagation / IEEE Xplore	Mar 2022	Scopus	<a href="https://doi.org/10.1109/InCAP52216.2021.9726483">https://doi.org/10.1109/InCAP52216.2021.9726483</a>
23	Dr.D.Pritima & Dr.G.Veerappan	Analysis of spring back behaviour during bending of AISI 1045 sheet metal	Materials Today: Proceedings 2022, 59, pp. 1575–1580	May 2022	Scopus	DOI10.1016/j.matpr.2022.04.160
24	Dr.R.Gopinathan	Investigating the performance of a	Materials Today:	May 2022	Scopus	<a href="https://doi.org/10.1016/j.matpr.2022.05.123">https://doi.org/10.1016/j.matpr.2022.05.123</a>



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		NMPCM integrated heat sink for chipset cooling	Proceedings			
25	Dr.G.Veerappan & Dr.D.Pritima	Experimental investigation on machining behavior in dry turning of nickel based super alloy-Inconel 600 and analysis of surface integrity and tool wear in dry machining	Materials Today : Proceedings	Sep 2021	Scopus	<a href="https://doi.org/10.1016/j.matpr.2022.04.151">https://doi.org/10.1016/j.matpr.2022.04.151</a>
26	Dr.G.Veerappan & Dr.D.Pritima	Influence of cryogenic treatment on tool life, flank wear and surface roughness for machining nickel based super alloy-Haynes 282	Materials Today : Proceedings	Sep 2021	Scopus	<a href="https://doi.org/10.1016/j.matpr.2022.04.152">https://doi.org/10.1016/j.matpr.2022.04.152</a>
27	S. Panneerselvam	Performance Comparison of Domestic Refrigeration System with Latent Heat Storage Materials	IEEE explore - 2021 Smart Technologies, Communication and Robotics (STCR)	Nov 2021	Scopus	<a href="https://ieeexplore.ieee.org/document/9588998">https://ieeexplore.ieee.org/document/9588998</a>
28	S. Panneerselvam	Design and Fabrication of Rocker-Bogie Pesti-Bot Using Rotary Mechanism	2021 7th International Conference on Advanced Computing and Communication Systems, ICACCS, 2021,	Jun 2021	Scopus	DOI: 10.1109/ICACCS51430.2021.9441751



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			pp. 683–688, 9441751			
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BOOK CHAPTER 2021-2022						
SN o	Name of the Author(s)	Title of the Paper	Name of the Journal	Month and Year of publicatio n	Indexing (Scopus/ WoS)	DOI/ISBN
1	Dr. M. Lydia	Machine Learning Algorithms for Modelling Agro-climatic Indices: A Review	Smart Innovation, Systems and Technologies, volume 224	July 2021	Scopus	<a href="https://doi.org/10.1007/978-981-16-1502-3_3">https://doi.org/10.1007/978-981-16-1502-3_3</a>
2	Dr. M. Lydia	Impact of Internet of Things in Agriculture	Springer - Lecture Notes in Networks and Systems	Nov 2021	Scopus	<a href="https://doi.org/10.1007/978-981-16-5348-3_19">https://doi.org/10.1007/978-981-16-5348-3_19</a>
4	Mr. T. Vignesh	Smart equipment to protect patients and people from COVID disease	Biomedical Engineering Tools for Management for Patients with COVID-19 2021, Pages 121-133	Jun 2021		<a href="http://dx.doi.org/10.1016/B978-0-12-824473-9.00006-9">http://dx.doi.org/10.1016/B978-0-12-824473-9.00006-9</a>
5	Mr. T. Vignesh	Decision Support Mechanism to Improve a	Internet of Things, Artificial Intelligence	Oct 2021		ISBN 978-3-030-74149-5, Springer, Cham -



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		Secured System for Clinical Process Using Blockchain Technique	and Blockchain Technology Print			
6	Dr. M. Lydia	Security Challenges in 5G and IoT Networks: A Review	EAI/Springer Innovations in Communication and Computing	Oct 2021		<a href="https://doi.org/10.1016/j.matpr.2021.04.628">https://doi.org/10.1016/j.matpr.2021.04.628</a>
7	Dr. D. Pritima	Artificial Intelligence based Energy Management and Real time optimization in Electric and Hybrid electric vehicles.	EAI/Springer Innovations in Communication and Computing	Dec-2021		<a href="http://dx.doi.org/10.1007/978-3-030-85424-9_12">http://dx.doi.org/10.1007/978-3-030-85424-9_12</a>
8	Dr. M. Bhuvaneshwari	Efficient Resource Distribution in Cognitive Radio Network by Fuzzy-Based Cluster	Smart Innovation, Systems and Technologies book series (SIST, volume 251)	Jan 2022		<a href="https://doi.org/10.1007/978-981-16-3945-6_2">https://doi.org/10.1007/978-981-16-3945-6_2</a>



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		Against Attacks				
9	Dr. V. Narasimharaj	A Novel Approach to determine the natural resting orientation of brake lever	Lambert Academic Publishing	Oct 2021		-
10	Dr. M. Lydia	Deep learning algorithms for wind forecasting: An overview	Wiley Book Chaper	Feb 2022	Scopus	<a href="https://doi.org/10.1007/978-981-16-8550-7_9">https://doi.org/10.1007/978-981-16-8550-7_9</a>
11	Dr. K. Ananthi	Recycle of Plastic Material for Fabrication of Paver Blocks	Lecture Notes in Electrical Engineering	April 2022		<a href="https://www.springerprofessional.de/en/recycle-of-plastic-material-for-fabrication-of-paver-blocks/20336370">https://www.springerprofessional.de/en/recycle-of-plastic-material-for-fabrication-of-paver-blocks/20336370</a>