



DEPARTMENT OF MECHATRONICS ENGINEERING

JOURNAL PUBLICATION: ACADEMIC YEAR 2022-2023						
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	Wind Turbine Energy Cost Optimization using Various Power Models	WSEAS Transactions on Power Systems	Sep 2022	Scopus	doi: 10.37394/232016.2022.17.27
2	Dr. M. Lydia	Mathematical modeling of real time wind power density using the transformation technique	Przeglad Elektrotechniczny	Jun 2022	Scopus	doi:10.15199/48.2022.04.07
3	Dr.D.Pritima	An Intelligent hyperparameter tuned deep learning enabled human activity recognition for improved medical services	Computer system science and engineering (A1)	Jun 2022	Scopus	DOI: 10.32604/csse.2023.024612
4	Dr.R.Gopinathan	Design of FIR Filter under Frequency Domain responses	IEEE Explorer	Jul 2022	Scopus	DOI: 10.1109/ICSES55317.2022.9914010
5	Dr.R.Gopinathan	A Study On Impact Of Performance Of The Supply Chain Management With Reference	Journal of Clinical Otorhinolaryngology, Head, and Neck Surgery	Feb 2023		https://doi.org/10.13201/j.issn.1001-1781.2023.01.095



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		To Sme				
6	Dr.R.Gopinathan	The Impact of Artificial Intelligence as advanced technologies on Bitcoin Industries	A Journal for New Zealand Herpetology	Feb 2023		DOI : http://biogecko.co.nz/.2023.v12.i01.pp639-646
7	Dr.R.Gopinathan	Investigating the role of Blockchain technology in Health Care System	A Journal for New Zealand Herpetology	Feb 2023		DOI : http://biogecko.co.nz/.2023.v12.i01.pp647-657
8	Dr.R.Manikandan	Influence of cowpat ash particles on micro structure, mechanical and tribological properties of Al 7075 composites	Journal Of Ceramic Processing Research	Aug 2022	Scopus/WoS	DOI : 10.36410/jcpr.2022.23.4.511
9	Dr.R.Manikandan	Experimental studies on the effects of reinforcing cowpat ash with aluminium composites	Part E: Journal of Process Mechanical Engineering	Sep 2022	Scopus/WoS	https://journals.sagepub.com/doi/full/10.1177/09544089221129862
10	Dr.R.Manikandan	Microstructure, mechanical and wear characteristics of CeO ₂ -Mg metal matrix composites	Part E: Journal of Process Mechanical Engineering	Nov 2022	Scopus/WoS	https://journals.sagepub.com/doi/10.1177/09544089221139592
11	Dr.G.Veerappan	Effect of Copper on Mechanical Properties and	Arabian Journal for Science and Engineering	Jul 2022	Scopus/WoS	doi.org/10.1007/s13369-022-07041-8



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		Corrosion Behavior of Powder Metallurgy Processed Ni-Co-Cr-Fe-Mn-Cux High Entropy Alloy				
12	Dr.J.Justin Maria Hillary	Implementation of SCARA Robot For Pick and Place Operations	Tierärztliche Praxis	Jul 2022		https://tierarztliche.com/gallery/5-jun-1077.pdf
13	Dr.J.Justin Maria Hillary	Finite Element Method-Based Spherical Indentation Analysis of Jute/Sisal/Banana-Polypropylene Fiber-Reinforced Composites	Adsorption Science & Technology	Sep 2022	Scopus/WoS	https://doi.org/10.1155/2022/1668924
14	Dr.J..Justin Maria Hillary	Investigation of Mechanical and Tribological Properties of AA6061/MWCNT/B4C Hybrid Metal Matrix Composite," Advances in Materials Science and Engineering	Advances in Materials Science and Engineering	Sep 2022	Scopus/WoS	https://doi.org/10.1155/2022/1684169
15	Dr.J.Justin Maria Hillary	Analysis of Spectroscopic,	Journal of Nanomaterials	Oct 2022	Scopus/WoS	https://doi.org/10.1007/s12633-022-01881-7



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		Morphological Characterization and Interaction of Dye Molecules for the Surface Modification of TiB ₂ Nanoparticles				
16	Dr.L.Feroz Ali	Tungsten Nanoparticle Reinforced AA7055 via Friction Stir Process Route with Multi-groove Strategy	Journal of Materials Engineering and Performance	Sep 2022	Scopus/WoS	https://doi.org/10.1007/s11665-022-07325-y
17	Dr.K.Ananthi	Performance Analysis of Effective Controller for Active Power Filter using PUC5 Inverter for Improving Power Quality	Journal of Electrical Engineering and Technology	Jul 2022	Scopus/WoS	https://doi.org/10.1007/s42835-022-01039-w
18	Dr.Madhankumar	Computational and experimental study of a novel corrugated-type absorber plate solar collector with thermal energy storage moisture removal device	Applied Energy	Oct 2022	Scopus/WoS	https://doi.org/10.1016/j.apenergy.2022.119746



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19	S. Madhankumar	Analysis of indirect solar dryer with PCM energy storage material: Energy, economic, drying and optimization	Solar Energy	Jan 2023	Scopus/WoS	https://doi.org/10.1016/j.solener.2022.12.009
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CONFERENCE PUBLICATION: ACADEMIC YEAR 2022-2023

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.T.A.Selvan	Electrical discharge machining process variable assessment on Al7075 mixed composite materials utilising multi-criteria optimization method	Materials today: Proceedings	Aug 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.07.339
2	Dr.T.A.Selvan	An empirical study of the impacts of parameters in micro electrochemical drilling of Al 7075 alloy composites with SiC and fly-ash	Materials today: Proceedings	Oct 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.09.453
3	Dr.D.Pritima	Analysis of spring back behaviour during bending of AISI 1045 sheet metal	Materials Today Proceedings	May 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.04.160
4	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	Apr 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.04.152
5	Dr.D.Pritima	Machine learning assisted investigation on properties of TiO2 reinforced aluminium metal matrix composites	Materials Today Proceedings	Dec 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.11.306
6	Dr.V.Narasimharaj	Minimization of energy consumption using Optimized	IEEE Conference	Dec 2022	Scopus	10.1109/ICSTCEE56972.2022.10099812



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		k-medoid based modified discrete PSO clustering model in MANET				
7	Dr.V.Narasimharaj	Abnormal flow detection using optimized ABFlow network in SDN based smart grid application	IEEE Conference	Dec 2022	Scopus	10.1109/ICSTCEE56972.2022.10100108
8	Dr.R.Gopinathan	Splicing Image Forgery Detection by Deploying Deep Learning Model	IEEE Conference - International Conference on Automation, Computing and Renewable Systems (ICACRS)	Feb 2023	Scopus	10.1109/ICACRS55517.2022.10029055
9	Dr.R.Gopinathan	Renewable Energy based Security System for Isolator (Air Brake Switch) using Fingerprint Sensor with Internet of Things	IEEE Conference - International Conference on Automation, Computing and Renewable Systems (ICACRS)	Feb 2023	Scopus	10.1109/ICACRS55517.2022.10028991
10	Dr.R.Gopinathan	Study on the performance of a flat plate solar water heater using a hybrid nanofluid	Materials Today: Proceedings	Sep 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.08.181
11	Dr.R.Gopinathan	Study on the effect of lamination on Mechanical Behaviour of Banana/Snake grass fiber hybrid epoxy composite	Materials Today: Proceedings	Aug 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.08.185
12	Dr.S.Balasubramani	Preparation and	AIP	Oct	Scopus	https://aip.scitation.org/doi/pdf/10.1063/5



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		characterization of magneto rheological fluid for vibration damping	Conference Proceedings	2022		.0108091
13	Dr.G.Veerappan	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	Apr 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.04.151
14	Dr.G.Veerappan	Machine learning enabled Optimization techniques for exploring the mechanical properties of stir cast AA6061	Materials Today: Proceeding	Dec 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.09.597
15	Dr.G.Veerappan	Investigation of mechanical properties and corrosion behavior of Nickel Bronze alloy prepared powder metallurgy	Materials Today: Proceeding	Nov 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.10.259
16	Dr.N.Mithran	Shape and size effects of glass mini channels on IR sensors in air water two phase flow	Lecture notes in mechanical engg	Sep 2022	Scopus	DOI: 10.1007/978-981-19-3379-0_27
17	Dr.L.Feroz Ali	Evaluation of the polyamide's mechanical properties for varying infill	Materials Today Proceedings	Sep 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.09.227
18	Dr.L.Feroz Ali	Physical and Mechanical Properties of Randomly Oriented Natural Fiber	Materials Science Forum	Oct 2022	Scopus	https://doi.org/10.4028/p-hfs96t
19	Ms.S.Kannaki	Investigations on Zno reinforced composite materials for electronic applications	Materials Today Proceedings	Nov 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.11.018
20	Dr.K.Ananthi	Security Enhancement of Fog Nodes in IoT networks using IBF scheme	Springer	Jul 2022	Scopus	https://doi.org/10.1007/978-3-031-12413-6_10
21	Dr.K.Ananthi	IoT based AGV System for Medicare	IEEE Xplore	Sep 2022	Scopus	10.1109/ICESC54411.2022.9885709
22	Dr.M.Bhuvaneshwari	Internet of Things based Intelligent Waste Segregation and Management System for Smart Home Application	7th International Conference on	Aug 2022	. Scopus	doi: 10.1109/ICESC54183.2022.9835844



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			Communication and Electronics Systems (ICES) IEEE Xplore			
23	Ms.S.Nithyapriya	Automatic pit digging robot for seed sowing	IEEE Xplore	Jun 2022	Scopus	10.1109/ICICCS53718.2022.9788356
24	Mr.M.Vigneswaran	Study on the mechanical properties of a hybrid polymer composite using egg shell powder based bio-filler	Materials Today proceeding	Jul 2022	Scopus	https://doi.org/10.1016/j.matpr.2022.07.114
25	Mr.M.Vigneswaran	"Effect of Kapok Seed Powder on Mechanical and Water Intake Properties of Untreated Kenaf Fiber Composites"	Materials Today proceeding	Jan 2023	Scopus	https://doi.org/10.1016/j.matpr.2023.01.045
26	Mr.T.Vignesh	Automated metal sorting system based on weight and colour of the specimen	AIP Conference Proceedings	Oct 2022	Scopus	DOI: 10.1063/5.0109750



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BOOK CHAPTER 2022-2023

SNo	Name of the Author(s)	Title of the Paper	Name of the Journal/ Publisher	Month and Year of publication	Indexing (Scopus/ WoS)	DOI/ISBN
1	Dr.R.Gopinathan	The Changing Role of Human Resource Management in the Global Competitive Environment	I I P Iterative International Publishers	Dec 2022		ISBN: 978-1-68576-401-2
2	Dr.M.Bhuvaneshwari	Real-time implementation of an implantable antenna using chicken swarm optimization for IoT-based wearable healthcare applications	IoT and Fog computing	Nov 2022		https://doi.org/10.1201/9781003230236
3	Dr.S.Madhankumar	Design of Automatic Headlamp Control Using Light-Dependent Resistor Sensors and Night Vision Camera	Lecture Notes in Networks and Systems	September 2022	ISBN 978-981-19-2224-4	https://doi.org/10.1007/978-981-19-2225-1_58
4	Mr.T.Vignesh	Technology in	International	April 2022	ISSN:	ISSN: 0974-5823



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		design aspect of drocobot robot	Journal of Mechanical Engineering		0974-5823	
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