



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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Valley Campus, Coimbatore-641032, Tamil Nadu, INDIA



DEPARTMENT OF MECHATRONICS ENGINEERING

Faculty Publications

Sl. No.	Title of the paper	Name of the author/s	doi	Name of the journal	Year of publication
1	Extraction, performance and emission characterization of diesel engine using waste lipolytic microorganism biodiesel	M.Arunkumar Magesh Mani, Anjani Kumar Rai, A. Adinarayanan, Ram Subbiah, P.Ganeshan, Sathish Kannan, A.H. Seikh, A. Iqbal	https://doi.org/10.30955/gnj.004981	Global NEST Journal	2023
2	Environmental and chemical changes in palm oil biodiesel using homogeneous catalysts	S. Radjarejesri , Magesh Mani , Ashish Sharma , M.Arunkumar , Bipin Kumar Singh , Sathish Kannan , Gaber E. Eldesoky, Saikh Mohammad Wabaidur, Sikandar Aftab	https://doi.org/10.30955/gnj.004984	Global NEST Journal	2023
3	Exhaust gas recirculation in a compression-ignition engine with nano coated Al ₂ O ₃ -TiO ₂ and ethanol fuel	Arunkumar Munimathan, Silambarasan Rajendran, Karthik Raju	https://doi.org/10.1016/j.rineng.2023.101414	Results in Engineering	2023
4	Syngas production from aqueous phase reforming of glycerol-water mixture for compression ignition engine	Vetrivel Kumar Kandasamy, Arunkumar Munimat han, and Ratchagaraja Dh airiyasamy	https://doi.org/10.1177/0958305X231204028	Energy & Environment	2023
5	Influence of alloying elements and its effect on austempering of compacted graphite iron – A review	G. Thilak , P. Chandr amohan , V.S. Sarava nan	https://doi.org/10.1016/j.matpr.2023.09.119	Materials Today: Proceedings	2023
6	Mathematical modeling and prediction of pit to crack transition under cyclic thermal load using artificial neural network	Tamiru Hailu Kori , A. Johnson Santhosh , Dawit Mul neh Yona , N. Ashok , G. Thilak , Ahmed Jema l Aba Afres	https://doi.org/10.1016/j.matpr.2023.10.081	Materials Today: Proceedings	2023
7	Taguchi optimizations on friction stir welding of nitinol alloy	Y. Anil Reddy , M. Srinivas Reddy , M. Kumaresa n , Pradeep Johnson , M. Mamatha Gandhi , J. Sai Kishore , Ram Subbi ah	https://doi.org/10.1016/j.matpr.2023.08.185	Materials Today: Proceedings	2023

8	Performance Evaluation of Optical D Flip Flop Built Sequential Circuits	V Premchandran, G. Thilak, Pradeep Johnson, P.T. Saravana Kumar, M.R. Raveendharan	https://doi.org/ 10.1109/ICECA55336.2022.10009356	6th International Conference on Electronics, Communication and Aerospace Technology	2023
9	Investigating Mechanical Properties of Hybrid Polymer Composite Reinforced with S-Glass and Luffa Fibres	N. Vigneshkumar, N. Harikannan, S. Selvakumar, P. Manoj Kumar, Ram Subbiah and P.T. Saravanakumar	https://doi.org/10.1088/1742-6596/2272/1/012024	Journal of Physics: Conference Series 2272 (1)	2023
10	Experimental investigation of pineapple fiber and calcinated poultry egg shell powder epoxy composites	Pradeep Johnson,P. Babu Aurtherson, R. Suthan & S. Madhu	https://doi.org/10.1007/s13399-022-03609-4	Biomass Conversion and Biorefinery	2023
11	Impact of AlN-SiC Nanoparticle Reinforcement on the Mechanical Behavior of Al 6061-Based Hybrid Composite Developed by the Stir Casting Route	Kaliappan, S. hanmugam, A. Johnson, Pradeep Karthick, M	https://doi.org/10.1155/2022/1399618	Advance in material science and Engineering-Hindawi	2023
12	Experimental investigations on the performance of a single slope solar still with thermal energy storage.	P. Manoj Kumar , P.T. Saravanakumar , Atul Sarojwal , Rajasekaran Saminathan , D. Harikrishna , S. Jeevan Prasanth , R. Aravindh Pranav	https://doi.org/10.1016/j.matpr.2022.12.221	Material today: proceedings- Elsevier	2023
13	Analyzing thermal characteristics of an inorganic phase change material	G. Thilak , Rajasekaran Saminathan , S. Srinivasan , P. Manoj Kumar , M.K. Murthi , S. Ram	https://doi.org/10.1016/j.matpr.2022.07.217	Material today: proceedings -Elsevier	2023
14	Strain hardening behavior of friction stir welded magnesium alloy	S. Sathish a, J. Venkatesh b, Pradeep Johnson c, Shaik Annar d, J. Saranya e, J. Sai Chandra f, Ramaswamy Subbiah g, S. Tharmalingam	https://doi.org/10.1016/j.matpr.2022.10.217	Material today: proceedings- Elsevier	2023
15	Performance and quality improvement in a foundry industry using Fuzzy and MCDM and lean methods	N. Senthil Kannan, R. Parameshwaran, P. T. Saravanakumar, P. Manoj Kumar & Moti Lal Rinawa	https://doi.org/10.1007/s13369-022-06627-6	Arabian journal for science and Engineering-Springer	2022
16	Study on sintered wick heat pipe(SWHP) with CuO Nano fluids under different orientation	P. Manoj Kumar, Rajasekaran Saminathan, Mohammed Tharwan, Haitham Hadidi, P. Michael Joseph Stalin, G. Kumaresan, S. Ram, Moti Lal Rinawa, P. T. Saravanakumar, K. Karthikeyan, Dawit Tafesse Gebreyohannes	https://doi.org/10.1155/2022/7158228	Journal of Nano materials-Hindawi	2022
17	Effect of the phase on	C. Suresh Kumar, K.	https://doi.org/10.1	Advances in Materials	2022

	indentation resistance and damage characterization of Glass/epoxy laminates using acoustic emission monitoring	Saravanakumar, P. Prathap, M. Prince, G. Bharathiraja, S. Kannan, S. Madhu, P. Kumaran	155/2021/5768730	Science and Engineering - Hindawi	
18	Environmentally Conscious Manufacturing and Life Cycle Analysis: A State-of-the-Art Survey	Prathap Paulraj, Padmanaban Ilangoan, Kannan Subramanian, Mohan Raj Nagarajan, R. Suthan, V. Sakthimurugan, S. Madhu, Edwin Geo Varuvel, Haiter Lenin	https://doi.org/10.1155/2022/8438462	Journal of Nano materials-Hindawi	2022
19	Performance analysis of peel test on fused filament fabricated polypropylene aluminum.	A. Felix Sahayaraj , N. Senthil Kannan , L. G irisha , S. Kannan , D . Rahul , Ram Subbia h	https://doi.org/10.1016/j.matpr.2021.05.246	Material Today: Proceedings-Elsevier	2022
21	Investigation into microstructure and mechanical properties of AI 6061/SIOCP metal matrix composite spur gear produced via powder metallurgy	V. Vijayakumara, Pradeep Johnson, Ruban Whenish, A. John Rajan and Vincent H Wilson	https://doi.org/10.1016/j.msea.2012.01.083	Journal of ceramic processing- SCI	2022
22	Optimization and analysis of machined surface on synthesized cobalt- chromium composite	D. Raguraman, R. Vinnoth , K. Kesavaraj , S. Sathish , M. Kalil Rahiman , R. Revathy , D.S. Naga Raju , S. Ram	https://doi.org/10.1016/j.matpr.2022.04.354	Material Today: Proceedings-Elsevier	2022
23	Sun Light Tracking Solar Panel Using Arm Processor Microcontroller and LDR Sensors	B. Nishanth, S. SS. Sindhu, M. Kumaresan, D Dhanalakshmi, M. Karthikeyan	ISSN: 0974-5823	International Journal of Mechanical Engineering - Scopus	2022
24	Arm Processor Microcontroller Multilevel Parking Using Labviewand Ir Sensor	B. Nishanth, Dr. V. Nirmala Devi, M. Kumaresan, S. SS. Sindhu, N Nithya	ISSN:1006-7930	Journal of Xi'an University of Architecture & Technology- Scopus	2022
25	Design And Implantation Of Gsm And Arm Processor Microcontroller Industrial Automation Using Gas Sensor And Ldr Sensors	B. Nishanth, Dr. V. Nirmala Devi, M. Kumaresan, S. SS. Sindhu, N Nithya	ISSN:1006-7930	Journal of Xi'an University of Architecture & Technology - Scopus	2022
26	Experimental investigation of AI7075 reinforced with WC and SIC metal matrix composites	Anandha Moorthy A , Jegan M .M , PrakashKanna G , Senthilkumar C , Radha Krishnan Beemaraj	https://doi.org/10.1016/j.matpr.2021.10.239	Material Today: Proceedings-Elsevier	2022
27	Design and analysis of hydraulic lift housing	M M Jegan, B Pitchia Krishnan , Manoj Kumar Shanmugam , P Infant Kebin Raj and K T Bose	https://doi.org/10.1088/1742-6596/1964/7/072019	Journal of physics-Scopus	2021
28	CFD analysis of rotating diffuser in a SUV For Improving Thermal comfort	L. Karthick , D. Prabhu , K. Rameshkumar , T. Prabhu , C.A. Jagadish	https://doi.org/10.1016/j.matpr.2021.10.482	Material Today: Proceedings-Elsevier	2022
29	Numerical analysis of modified tooth in spur gear for increasing the performance using fool	L. Karthick , A. Shan mugasundaram , C.A. Jagadish , T. Prabhu	https://doi.org/10.1016/j.matpr.2021.04.285	Material Today: Proceedings-Elsevier	2022

	proofing technology	, S. Vidya Prakash			
30	Comparison and analysis of mechanical properties of glass fiber and banana fiber composites	L. Karthick , S. Sivakumar , A. Sasikumar , A. Prabhu , J. Senthil Kumar , L. Vadivukarasi	https://doi.org/10.1016/j.matpr.2021.09.073	Material Today: Proceedings-Elsevier	2022
31	Performance of Enhancement of Efficient Process Based on Carry –Skip Adder For IOT Applications	Bagyalakshmi K , M. Karpagam	https://doi.org/10.1016/j.micpro.2020.103101	Microprocessor and Microsystems-SCI	2021
32	Enhancing The Security Of Aes Through Small Scale Confusion Operations For Data Communication	Lavanya R , Karpagam M	https://doi.org/10.1016/j.micpro.2020.103041	Microprocessors and Microsystems-SCI	2021
33	Surface Roughness Assessment Based On Digital Image Texture Analysis Of Cfrp Composites Machined By Swirling Abrasives	S. Madhu, M. Balasubramanian, S. Kannan	Corpus ID: 224816318	Journal of Engineering Science And Technology-SCI	2021
34	Microstructure and mechanical properties of friction stir welded AISI321 stainless steel	Pradeep Johnson , N. Murugan	https://doi.org/10.1016/j.jmrt.2020.02.023	Journal of Materials Research and Technology	2021
	Evaluation Of Tensile And Flxual Properties Of Foundry Slag Particulate Polymer Composite	Rajeswaran Mohankumar, S. Kannan	https://doi.org/10.1016/j.matpr.2020.04.013	Material Today: Proceedings-Elsevier	2021
35	Subversive Power Cable Fault Credential Via Gsm And Gps Module For Green Energy	Dr.T.Vandarkuzhali	Journal of Green Engineering, Vol. 11_2, 1394-1411.	Journal of Green Engineering- Scopus	2021
36	Investigations Into Microstructure And Mechanical Properties Of Ai 6061/Sicp Metal Matrix Composite Spur Gear Produced Via Powder Metallurgy	V. Vijayakumar , Pradeep Johnson , Ruban Whenish , A. John Rajan , Vincent H Wilson	https://doi.org/10.36410/jcpr.2021.22.4.401	Journal of Ceramic Processing Research-SCI	2021
37	Gyroscopic Hybrid Bicycle	Akash C B, Devaprasedh, Jills Babu, Mohammed Ryan, Mr. G Thilak	http://dx.doi.org/10.47392/irjash.2021.014	International Journal on Advanced Science Hub-Scopus	2021
38	Theoretical Analysis Of De-Inking Methodology And Process Improvement Initiatives In Paper Industry	M. Karthikeyan , S. Krishnamoorthy	https://doi.org/10.1016/j.matpr.2020.09.196	Material Today: Proceedings-Elsevier	2021
39	Design And Analysis Of Sensor Centered Prostheses For Handicaps	S. Krishnamoorthy , M. Karthikeyan	https://doi.org/10.1016/j.matpr.2020.09.303	Material Today: Proceedings-Elsevier	2021
40	Wear Performance and Mechanical Properties Of Unidirectional Sisal/ Carbon / Flax Hybrid Reinforced Epoxy	R Anand Kumar, S SS Sindhu, M Kumaresan, S Sathish, N Karthi, J Vignesh, S P Sidharth, K V Shreedharand P Subash Rajasekar	https://doi.org/10.1088/1757-899X/988/1/012010	Material Science and Engineering- Scopus	2021
41	Heat Capacity Improvement in the Electric Furnace Through Amendment of the Electric Circuit on Melting of Hardox Steel	R. Geethamani, S. Jaganathan , S. Prem Anand , S. Sheeba Rani , B. Stalin	https://doi.org/10.1016/j.matpr.2020.08.364	Material Today: Proceedings-Elsevier	2021
42	Design and Fabrication of an Upright for Student Formula Car	M. Sindhukavi , C. Arun Kannan , S. Sowmya	https://www.journals.resaim.com/ijres/article/view/262 ISSN	International Journal of Research in Engineering- Scopus	2021

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