



SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE

Approved by AICTE, New Delhi |Affiliated to Anna University, Chennai)

Accredited by NAAC with 'A' Grade| NBA (CIVIL, CSE, EEE, MECH)

Gobichettipalayam – 638 455, Erode District, Tamilnadu

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DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY JOURNAL PUBLICATIONS LIST

S.No	Academic Year	Name of the Author	Journal Name	Title of Paper	DOI/ ISSN	Impact Factor
1	2024-2025	Mr. K Kannakumar	International Journal of Vehicle Structures & Systems	Improved Mechanical Characteristics of AA2519 through the Synergistic Effect of B4C Addition by Squeeze Casting	0975-3060 doi: 10.4273/ijvs.s16.5.05	0.5
2	2024-2025	Mr. K Kannakumar	Matéria (Rio de Janeiro)	Investigation of synthetic and natural cork fiber laminate polymer composite bending characteristics	https://doi.org/10.1590/1517-7076-RMAT-2024-0489	0.5
3	2023-2024	Mr. V Velliyangiri	IOP Publishing Ltd Journal of Physics: Conference Series	Analysis of Implication of Phase Change Material Enclosed Design on Thermal Performance of Solar Collector	doi:10.1088/1742-6596/2837/1/012009	2.3
4	2023-2024	Mr. K Kannakumar	E3S Web of Conferences	Enhancing Wind Energy Potential Assessment with Three-Parameter Weibull Distribution: A Comparative Analysis using MATLAB	https://doi.org/10.1051/e3sconf/202452902009	0.53
5	2023-2024	Mr. D Mohanraj	E3S Web of Conferences	Examining the Combination of a Parabolic Solar Collector with Phase Change Material (PCM) in Solar Distillation	ISSN: 2267-1242 //doi.org/10.1051/e3sconf/202452902006	0.53
6	2023-2024	Dr. S Prakasam Mr. K Kannakumar Mr. D Mohan raj	Materials Today Proceedings	Investigation on the metallurgical and welding characteristics of AA7075/Fly ash	ISSN: 2214-7853 //doi.org/10.1016/j.matpr.2024.02	0.5



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7	2023-2024	Dr. S Prakasam	International journal of Recent and Innovation Trends in Computing and Communication.	Deep Learning based Detection of Cardiovascular Defects Patents	ISSN: 2321-8169	0.71
8	2023-2024	Mr. S MeinathanMr. P Lingewaran	IOP Publishing Ltd Journal of Physics: Conference Series	Investigation On The Characterization Of Hot Extruded Aa7075 Based Metal Matrix Composites Developed By Powder metallurgy	ISSN: 1742-6596doi:10.1088/1742-6596/2603/1/012041	0.56
9	2023-2024	Dr. P Thangavel Dr. S Prakasam	Tuijin Jishu/Journal of Propulsion Technology	Impact of Chatter Amplitude on Surface Roughness of Carbide Insert Tool Using Laminates Among Tool and Tool Holder	ISSN: 1001-4055	0.73
10	2023-2024	Mr. K Kannakumar	Nano World Journal	Evaluating Physical and Mechanical Properties of Coco Peat/Nano Clay/Nano Titanium Carbide Nanocomposite	ISSN: S301-S308 //doi.org/10.17756/nwj.2023-s3-057	0.56
11	2023-2024	Mr. K Kannakumar Mr. S Sathish Kumar	Materials Today Proceedings	Investigation of Thermal and Mechanical behavior of recycled low density polyethylene/Hemp fiber Composites	ISSN 2214-7853 //doi.org/10.1016/j.matpr.2023.08.239	2.46
12	2023-2024	Dr. K M Arunraja	International Journal of Engineering Research & Technology	Performance Improvement on Water Jet Nozzle by End Hencing Nozzle Spread Area,	ISSN: 2278-0181	1.55



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13	2023-2024	Dr. K M Arunraja	International Journal of Engineering Research & Technology	Design And Analysis of Thermal Distribution of Compressor Fins	ISSN: 2278-0181	1.55
14	2023-2024	Dr. P Thangavel Dr. S Prakasam Dr. K M Arunraja Mr. K Kannakumar	Journal of Harbin Engineering University	Influence of Cryo-milling on Metal Matrix Interface and Characteristics of AA5154 – ZrC Composites”,	ISSN:1006-7043	0.5
15	2023-2024	Dr. S Prakasam Dr. P Thangavel Dr. K M Arunraja Mr. S Meinathan	Journal of Harbin Engineering University	Study Of EDM Properties of Reinforced Cryogenic Treated Aluminum Alloy AA6063 Composites	ISSN:1006-7043	0.5
16	2023-2024	Dr. P Thangavel Dr. K M Arunraja Dr. S Prakasam Mr. P Lingeswaran	Journal of Harbin Engineering University	Investigation Of AA7075 MMC Reinforced By Al0.5cocragni Heap Through Stir Casting And Cryorolling	ISSN:1006-7043	0.5
17	2022-2023	Mr. P Lingeswaran	International Journal of Recent Trends In Multidisciplinary Research	Design & Fabrication of Electro Magnetic Clutch System for Four-Wheeler	81-82	0.03
18	2022-2023	Mr. K Kannakumar	E3S Web of Conferences	Enhanced behavior of solar stills with modified absorber surfaces: comparative analysis of floating wick designs	455, 02002 (2023) doi.org/10.1051/e3sconf/202345502002	0.53
19	2022-2023	Mr. S Meinathan	International Journal of Health Sciences	Structural improvement in industrial helmet by combining low and medium based elastic modulus value composite fibre	6(S4), 9999–10012 doi.org/10.53730/ijhs.v6nS4.10890	0.4



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20	2020-2021	Dr.P.THANGAVEL	International Journal of Scientific Research in Engineering and Management (IJSREM)	Study on tribological properties of biodegradable cutting fluid with the addition of additives.	2582-3930	7.185
21	2020-2021	Dr.S.PRAKASAM	International Journal of Scientific Research in Engineering and Management (IJSREM)	Mechanical and Thermal Buckling Analysis of Laminated Composite Plates.	2582-3930	7.185
22	2020-2021	K.KANNAKUMAR	International Journal of Innovative and Research Technology	Experimental Investigation on Mechanical and FTIR Analysis of Novel Bio Materials Reinforced Epoxy Composites.	2456-2165	6.253
23	2020-2021	S.MEINATHAN	International Journal of Innovative and Research Technology	Experimental Investigation on Mechanical and Ftir Analysis of Novel Bio Materials Reinforced Epoxy Composites.	2456-2165	6.253
24	2020-2021	P.LINGESWARAN	International Journal of Scientific Research in Engineering and Management (IJSREM)	A study on electrochemical discharge drilling of soda – lime – silicon- glass with aid of modified setup	2582-3930	7.185
25	2020-2021	V.D.PRABHU	International Journal of Scientific Research in Engineering and Management	An experimental investigation on weld characteristics for a shield metal arc welding with ss.	2582-3930	7.185



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26	2020-2021	E.VIDHYASRI	International Journal of Scientific Research in Engineering and Management (IJSREM)	An experimental study on the mechanical properties of alternate helmet materials fabricated using areca and glass fiber reinforced epoxy hybrid composites.	2582-3930	7.185
27	2020-2021	K.KANNAKUMAR	International Journal of Scientific Research in Engineering and Management (IJSREM)	Investigational and developmental study regarding implementation of sensor based hydraulically operated stainless steel lock gates for controlling salinity and hydraulic particulars.	2582-3930	7.185
28	2020-2021	K.KANNAKUMAR	International research journal on advanced science hub	Experimental investigation on mechanical and FTIR analysis of novel bio materials reinforced epoxy composites.	2582-4376	6.253
29	2020-2021	S.MEINATHAN	International research journal on advanced science hub	Experimental investigation on mechanical and FTIR analysis of novel bio materials reinforced epoxy composites.	2582-4376	6.253



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LIST OF PATENTS PUBLISHED

S.No	Academic Year	Name of the Author	Journal Name	Title of Paper	Date of Issue	Design Number
1	2024-2025	Mr. S Nirmal kumar	Patent office Government of India	Solar and Wind Energy Based Vehicle Charging Station	Oct-24	423035-001
2	2024-2025	Mr. K Kannakumar	Patent office Government of India	Milling Chamber for Air Milling Machine	Jul-24	417369-001
3	2024-2025	Mr. V Velliyangiri	Patent office Government of India	High Efficiency Thermal Heat Exchanger Design	Jul-24	421479-001
4	2023-2024	Mr. S Meinathan	Patent office Government of India	Battery Pack for Electric Vehicle	May-24	410813-001
5	2023-2024	Mr. K Kannakumar	Patent office Government of India	Pneumatic stirrer Agitator for Pharmaceutical Laboratory	Mar-24	404424-001
6	2023-2024	Mr. K Kannakumar	Patent office Government of India	Robotic Trolley for Material Handling	Dec-23	397576-001
7	2023-2024	Mr. K Kannakumar	Patent office Government of India	Wireless laptop Charger cum Cooling pad	Nov-23	395484-001
8	2023-2024	Mr. S Meinathan	Patent office Government of India	Machine learning based robot for determining crop yield	Oct-23	395142-001



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LIST OF BOOKS PUBLISHED

S.No	Academic Year	Name of the Author	Journal Name	Title of Paper	Published Year	ISBN Number
1	2024-2025	Mr. P Lingeswaran	Scientific International Publishing House	Fluid Mechanics	Nov-24	ISBN no : 978-93-6674-599-2
2	2024-2025	Mr. S Sathish Kumar	Quill Tech Publications	Renewable Energy Systems	Oct-24	ISBN no : 978-93-6786-963-5
3	2024-2025	Mr. D Mohanraj	Quill Tech Publications	Engineering Mechanics	Oct-24	ISBN no : 978-93-6786-636-8
4	2024-2025	Mr. K Kannakumar	Alpha International Publications	Heat and Mass Transfer	Sep-24	ISBN: 978-93-5762-195-3
5	2024-2025	Mr. K Kannakumar	San International Scientific Publications	Renewable Innovations Advancements in Eco-Friendly Energy Solution	Aug-24	ISBN: 978-81-977070-0-1
6	2023-2024	Mr. K Kannakumar	Haiyagrev Publications	Bearing Tribology	Nov-23	ISBN: 978-81-959812-7-4
7	2023-2024	Dr. K M Arunraja	ARS Publications	Additive Manufacturing	Sep-23	ISBN: 978-93-84608-59-0
8	2023-2024	Dr. K M Arunraja	ARS Publications	Design of Machine Elements	Jun-23	ISBN: 978-93-87255-09-8



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LIST OF BOOK CHAPTERS PUBLISHED

S.No	Academic Year	Name of the Author	Journal Name	Title of Paper	Year & Issue	DOI/ ISSN/ISBN/ DESIGN Number
1	2024-2025	Mr. K Kannakumar	Springer Nature Link	Experimental Investigation of Salt Hydrate Phase-Change Material (Shape-Stabilized) Applied to a Solar Collector	Aug-24	https://doi.org/10.1007/978-3-031-63909-8_26
2	2024-2025	Mr. K Kannakumar	IGI Global Scientific Publishing	Enhancing Desalination and Liquid Desiccant Regeneration Efficiency Through a Hybrid Solar Still: A Comparative Study With Steel Scrap Thermal Storage	Aug-24	10.4018/979-8-3693-2798-2.ch006
3	2024-2025	Mr. V Prabakaran	Springer Nature Link	Square Pyramid and Single Slope Solar Still: Experimental Analysis for Various Depth of Water (Scientific and Technological Advances in Materials for Energy Storage and Conversions)	Aug-24	https://doi.org/10.1007/978-981-97-2481-9_3
4	2022-2023	Dr. K M Arunraja	Empyreal Publishing House Book Chapter	Paddy Cultivation And Marketing In Tamilnadu- A Review	Mar-23	ISBN: 978-93-93810-62-5