


**DEPARTMENT OF AUTOMOBILE ENGINEERING**
**FACULTY JOURNAL PUBLICATIONS**

S.No	Name of the Faculty	Title of the Paper	Name of the Journal	Volume / Issue / PageNo.	Publisher	Month and Year
1	Dr.T. Mothilal	Effect of Silicon Coupling Grafted Ferric Oxide and E-Glass Fibre in Thermal Stability, Wear and Tensile Fatigue Behaviour of Epoxy Hybrid Composite	Silicon	Vol.No.12, Issue.11, pp.2533–2544	Springer	Dec 2019
2	Dr.T. Mothilal	Heat transfer analysis of thermoelectric generator at the focus of solar parabolic dish	Journal of Xi'an University of Architecture & Technology	Vol.No.12/ Issue.5, pp.275–281	-	May 2020
3	Dr T Mothilal	Performance of solar parabolic dish thermoelectric generator with PCM	Materials Today: Proceedings	Vol.No.37/Issue .2/pp.929-933	ELSEVIER	Nov 2020
4	Dr.T. Mothilal	Thermal and flexural properties of caryota urens palm fiber-reinforced polyester composites	A Journal Of Composition Theory	Vol.No.13/ Issue.1/ pp.301-312	-	Jan 2020

5	Dr.T. Mothilal Mr.S. Mathavan	Emission characteristics study of Gasoline-Diesel and Gasoline-Diesel/pentanol blend	IOP Conference Series: Materials Science and Engineering	Vol.No.988, Article ID-012050,8-pages	-	July 2020
6	Dr.T. Mothilal Mr.S. Mathavan	Analysis on mechanical properties of wood plastic composite	AIP Conference Proceedings	Article ID 2283, 020037	-	Oct 2020
7	Dr.T. Mothilal Mr.S. Mathavan	Performance and emission characteristics of diesel blended with sweet lime peel oil and corn oil	AIP Conference Proceedings	Article ID 2283, 020036	-	Oct 2020
8	Mr.S. Mathavan Dr.T.Mothilal	Experimental Investigation on Emission Characteristics of Diesel N- Pentanol Blend in Homogeneous Charged Compression Ignition Engine	International Journal of Vehicle Structures & Systems	Vol.No.13/ Issue.3/pp.309-313	-	Aug 2021
9	Dr T Mothilal	Mechanically toughened EMI shielding natural rubber composite in microwave frequency bands	Plastics, Rubber and Composites	Vol.No.50 /Issue.5/pp.241-248	Taylor & Francis	Feb 2021
10	Dr T Mothilal	Experimental investigation on physical properties of banana/E glass fiber reinforced hybrid interpenetrating polymer network composites	Materials Today: Proceedings	Vol.No.45/ Issue.6/ pp.5029-5033	ELSEVIER	Feb 2021
11	Mr. V A. Shridhar	A Comparative Study with J48 and Random Tree Classifier for Predicting the State of Hydraulic Braking System through Vibration	SAE Technical papers	Article ID-2021-28-0254	-	Aug 2021

12	Dr.V. Dillibabu	Investigation of Biomass Gasification Simulation Using Air, Steam and Oxygen As Gasifying Agent	Thermal Science	Vol.26, No.6B, pp.5109-5119	Vinca Institute of Nuclear Sciences	Aug 2022
13	Dr.V. Dillibabu	Investigation Of Gasification Reactions and H <sub>2</sub> /CO Ratio Analysis for Rice Husk Air Gasification Simulation	Thermal Science	Vol.27, No.1B, pp.881-890	Vinca Institute of Nuclear Sciences	Aug 2022
14	Mr.S. Mathavan	Comparative Analysis of NO <sub>x</sub> Emission Reduction in Engines Using NiCo <sub>2</sub> O <sub>4</sub> Nanoparticles without External Reductant at Low Temperatures: An Experimental Investigation	Journal of Nanomaterials	Article ID-8981350	Hindawi	Sep 2022
15	Dr T Mothilal	Effect of walnut powder reinforcement on the mechanical properties of biodegradable natural flax/hemp fibre-based composites	Materials Today: Proceedings	Vol.No.69/ Part 3/ pp.1387-1393	ELSEVI ER	Sep 2022
16	Dr T Mothilal	Influence of nano titanium oxide reinforced Al-7075 matrix composites in stir casting method	Materials Today: Proceedings	Vol.No.69/ Part 3/ pp.1381-1386	ELSEVI ER	Sep 2022
17	Mr.S. Mathavan	Experimental Analysis for Nitrogen Oxide Reduction in a Diesel Engine by the Hydrogen-Assisted Selective Catalytic Reduction Technique	Advances in Materials Science and Engineering	Volume 2023, Article ID 8686871, 7 pages	Hindawi	Jan 2023

18	Dr T Mothilal	Three-point bending and ILSS of high lamina bamboo fibre and polyester resin composite	Materials Today: Proceedings	Published online	ELSEVIER	Mar 2023
19	Dr T Mothilal	Evaluation of Mechanical Behaviour of Multiwalled Nanotubes Reinforcement Particles in Jute-Glass Fibres Hybrid Composites	Advances in Materials Science and Engineering	Volume 2023, Article ID 2219460, 7 pages	Hindawi	Apr 2023
20	Dr T Mothilal	Mechanical Characterization of Friction-Stir-Welded Aluminum AA7010 Alloy with TiC Nanofiber	Advances in Materials Science and Engineering	Volume 2023, Article ID 1466963, 7 pages	Hindawi	Apr 2023
21	Dr. T. Mothilal	Experimental Analysis of Al-SiC-TiB <sub>2</sub> hybrid metal matrix composite	AIP Conference Proceedings	International	AIP	10 Sep 2023
22	Dr. T. Mothilal	Mechanical and wear properties of 7075 Al reinforced with graphite particulate metal matrix composites: preparation and evaluation	AIP Conference Proceedings	International	AIP	10 Sep 2023
23	Dr. V. Dillibabu	Effect of operating condition on permanent magnet heating system	Lecture Notes in Mechanical Engineering "Recent Advances in Mechanical Engineering"	International		21 July 2023
24	<u>Mr.Balamurugan R</u>	Design and Investigation of Automatic Trash Collecting Machine for Industry	Smart Industry –SAE International	ISSN: 0148-7191, e-ISSN: 2688-3627 DOI: <a href="https://doi.org/10.4271/2023-28-0179">https://doi.org/10.4271/2023-28-0179</a>	SAE International	10 Nov 2023
25	Mr.Balamurugan R	Design and Analysis of Retrofit for Root Crop Harvester	Smart Agriculture SAE International	ISSN: 0148-7191, e-ISSN: 2688-3627 <a href="https://doi.org/10.4271/2023-28-0052">https://doi.org/10.4271/2023-28-0052</a>	SAE International	10 Nov 2023

26	Mr.Balamurugan R	Design, Modelling and Simulation of Adaptable Marine and Terrestrial Cleaner	Simulation and Design - SAE International	ISSN: 0148-7191, e-ISSN: 2688-3627 DOI: <a href="https://doi.org/10.4271/2023-28-0165">https://doi.org/10.4271/2023-28-0165</a>	SAE International	10 Nov 2023
27	Mr.Balamurugan R	Application of Taguchi Based ANFIS Approach in Wire Electrical Discharge Machining of Haste Alloy C276 for Automobile Applications	Electrical Discharge SAE International	ISSN: 0148-7191, e-ISSN: 2688-3627 DOI: <a href="https://doi.org/10.4271/2023-28-0167">https://doi.org/10.4271/2023-28-0167</a>	SAE International	10 Nov 2023
28	Dr. A. Arivazhagan	$H_{\infty}$ Static Output-Feedback Control with Variable Substitution Scheme for Non-Stationary Running Active Suspension Vehicle	International Journal of Vehicle Structures & Systems	ISSN 0975-3060	MechAero Foundation for Technical Research and Education Excellence (MAFTREE)	Dec 2023
29	Dr. A. Arivazhagan	Performance Evaluation of Passive Suspension System by Varying Damping Coefficient	International Journal of Vehicle Structures & Systems	ISSN 0975-3060	MAFTREE	Dec 2023
30	Dr. A. Arivazhagan	Design and Development of Power Generation using Vehicle Suspension	International Journal of Vehicle Structures & Systems	ISSN 0975-3060	MAFTREE	Dec 2023
31	Dr. V. Dillibabu	Anti-Theft Vehicle Tracking and Remote-Control System	International Journal of Vehicle Structures & Systems	ISSN 0975-3060	MAFTREE	Dec 2023

32	Dr. T. Mothilal	Evaluation of Lightweight Cotton Textiles for Durable and Comfortable Automotive Interior Applications.	SAE MOBILUS	ISSN: 0148-7191	SAE International	6 Feb 2024
----	-----------------	---	-------------	-----------------	-------------------	------------