

## Department of Mechanical Engineering

### Details of Faculty Journal Publications

S. No.	Name(s) of the Faculty	Title of the Paper	Name of the Journal	Volume / Issue / Page No./online link	Publisher	Month and Year
1	S.Rajesh Kannan	Optimisation and mechanical charaterisation of AA 5083 and AA7075 disimilar aluminium alloy joints produced by friction stir welding	International Journal of Vehicle Structures & Systems	doi:10.4273/ijvss.13.3.19	Scopus	Aug 21
2	<b>Dr.T.Raja</b>	Tribological and Mechanical Behaviour of Hybrid Al 6061 Metal Matrix Composites	International Journal of Vehicle Structures & Systems	doi: 10.4273/ijvss.13.3.21	Scopus	July 2021
3	M. Vignesh Kumar	Microstructural Evolution of a Cast ZK60 Mg Alloy/SiCp Surface Composites Induced by Friction Stir Process	Physics of Metals and Metallography	<b>DOI: 10.1134/S0031918X21040049</b>	Scopus	June 2021
4	Dr.M.Kannan	Experimental Investigation of Surface Ignition Using Ethanol in Di-Diesel Engine	<a href="https://archives.palarch.nl/index.php/jae/issue/view/129">https://archives.palarch.nl/index.php/jae/issue/view/129</a>	<a href="http://dx.doi.org/10.31838/jcr.07.13.25">http://dx.doi.org/10.31838/jcr.07.13.25</a>	Scopus	May 2021
5	Dr.M.Kannan	Investigation on diesel engine fuelled by mahua biodiesel	IT in Industry	<a href="https://doi.org/10.17762/itii.v9i1.149">https://doi.org/10.17762/itii.v9i1.149</a>	Scopus	March 2021
6	Dr.M.Kannan	<b>Experimental Analysis of Single Reflector Box Type Solar Cooker With Thermo Fluid</b>	<b>Journal of Critical Reviews</b>	<a href="https://mjl.clarivate.com/">https://mjl.clarivate.com/</a>	<b>Clarivate</b>	June 2020

7	Dr.M.Kannan	A study on performance, emission and combustion characteristics of diesel engine powered by nano emulsion of waste orange peel oil biodiesel	Renewable Energy		Elsevier	Feb 2020
8	Dr.M Kannan	Experimental Analysis of Single Reflector Box Type Solar Cooker withThermofluid	Journal of critical reviews			June2020
9	Dr.Z.Edward Kennedy	Effect of ZrO <sub>2</sub> Nano Particles on Mechanical and Corrosion behavior of Al2024 Alloy	Materials Today Proceedings ,Elsevier		Elsevier	July 2020
10	Dr.Z.Edward Kennedy, Arul InigoRaja	Optimization of Machining parameters in Al-Si-Gr composite developed through stir casting	International Journal of Advanced Science and Technology,		Scopus indexed	June 2020
11	Dr.Z.Edward Kennedy, Mohan, Arul Inigo Raja	“Experimental study of surface integrity during turning of Al-Si-BC particulate composites developed through stir casting”	International Journal of Advanced Science and Technology,		Scopus indexed	June 2020
12	K Gobivel, G Prabhakaran	Experimental Investigation on Orthogonal Turning of Inconel 718 with TiAlN Coated Tool	Materials Science Forum, Trans Tech Publications		Scopus indexed	03.03.2020
13	Dr.M.Kannan	NO <sub>x</sub> Reduction in CI(Compression Ignition) Engine Fueled With Methyl Ester Of Annona Oil Using Antioxidant Additives	Journal of the Balkan Tribological Association	Vol. 25, No 2, 443–454 (2019)	Environmental Tribology	2019
14	Dr.M.Kannan	A study on performance, emission and combustion characteristics of diesel engine powered by nano-emulsion of waste orange peel oil biodiesel	Renewable Energy	146 (2020) 1781e1795	Elsevier	June 2019
15	Dr.D.Easu	Influence of magnetic field strength of hybrid magnet on vibration isolation of quarter car model	Journal of Vibroengineering	Vol. 21, Issue 5, 2019, p. 1405-1413	JVE Journals	Aug 2019

16	Dr S Ramesh	Retention of Generation X Faculties in Self-Financing Engineering	Anthropologist	36(1-3):		2019
17	Dr L Prince Jeya Lal	"Numerical Investigation of the Behaviour of Thin-Walled Metal Tubes Under Axial Impact"	Springer	Book Chapter		Dec 2018
18	Dr. G Prabhakaran	Microwave versus conventional sintering: Microstructure and mechanical properties of Al <sub>2</sub> O <sub>3</sub> - SiC ceramic composites	Boletín de la Sociedad Española de Cerámica Vidrio	In press	Elsevier	July 2018
19	Dr.M.Kannan	Experimental studies on engine performance and emission characteristics using castor biodiesel as fuel in CI engine	Renewable Energy	131/Pages 737-744	Elsevier	July 2018
20	Mr.Prince Jeya Lal	Study on the repeatability of manufacturing nano-silica (SiO <sub>2</sub> ) reinforced composite laminates	IOP Conference Series: Materials Science and Engineering	346	IOP publishing	April 2018
21	Dr S Ramesh	Investigation on Mechanical and Fatigue behaviour of Aluminium Based SiC/ZrO <sub>2</sub> Particle Reinforced MMC	IOP Conference Series: Materials Science and Engineering	346	IOP publishing	April 2018
22.	Dr S Ramesh	Portable and cost effective fused deposition modeling machine for making a 3d solid object using thermoplastic materials	International Journal of Pure and Applied Mathematics	120 (6), 1619-1635	Academic publications	2018

23	Dr S Ramesh	Modeling and control of diesel engines: A systematic review	Alexandria Engineering Journal	57/4	Elsevier	2018
24	Dr. D Easu	Experimental analysis of vibration isolation using hybrid magnet and magnetorheological fluid damper	Journal of the Brazilian Society of Mechanical Sciences and Engineering	7/47	Springer	July 2018
25	Mr. Prince Jeyalal L	Assessments of Secondary Reinforcement of Epoxy Matrix- Glass Fibre Composite Laminates through Nanosilica	Materials	11/1-17	MDPI	Nov 2018
26	Mr. M Vignesh Kumar	Influence of Tool Tilt Angle on the Formation of Friction Stir Processing Zone in Cast Magnesium Alloy ZK60/SiCp Surface Composites	Metallography, Microstructure, and Analysis	1-9 I	Springer	Nov 2018
27	Dr S Ramesh	J Inbakumar Parivendhan, S Ramesh, Mechanical, wear and thermal behaviour of hemp fibre/egg shell particle reinforced epoxy resin bio composite	Transactions of the Canadian Society for Mechanical Engineering	42 (3), 280-285- 2015	Canadian Society for Mechanical Engineering	2018

28	Dr S Ramesh	Experimental Investigation on Structure, Wear and Erosion Resistance of SS316 Substrate Coated with TiC-Al <sub>2</sub> O <sub>3</sub> Nano Composite by Laser Cladding	High Temperature Material Processes	22 (1), 63–71	Begell House	2018
29	Dr S Ramesh	Measurement and optimization of performance characteristics in turning of Mg alloy under dry and MQL conditions	Measurement	120 (May 2018), 107–11	Elsevier	May 2018
30	Mr. K Gobivel	"Finite Element Analysis of High- Speed Machining of CFRP Material"	Lecture notes in Mechanical Engineering,	Vol: pp.137-147, 2018	Springer	2018
31	Mr. S Jesudass Thomas	Comparative study of the effect of surface texturing on cutting tool in dry cutting	Journal of Materials and Manufacturing Processes	Volume 33, 2018 - Issue 6	Taylor & Fancis	February 2018
32	Mr. M Vignesh Kumar	Influence of Tool Rotational Speed on the Formation of Friction Stir Processing Zone in Cast Zk60/SiCp Magnesium Alloy Surface Composites	ASTM International	. ISSN 2379-1365.	ASTM	2018
33	Dr.M.Kannan	An experimental investigation on the performance of a CI engine when using LTC with a blend of diesel, biodiesel and ethanol	International Journal of Heavy Vehicle System	25/3-4	Inderscience	2018