

DEPARTMENT OF MECHANICAL ENGINEERING

S.No	Title of paper	Name of the author	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
							Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list
1	<u>Analysis of Mechanical properties enhancement on composites of AA7175 by multi walled carbon nano tube</u>	S. Rajesh	Mechanical	Materials Today: Proceedings	2022-2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/abs/pii/S2214785323018606	YES
2	<u>ANN based fatigue life assessment of FSW on AA2219-T351 and optimization of welding parameter</u>	S. Rajesh	Mechanical	Materials Today: Proceedings	2022-2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/abs/pii/S2214785323031140	YES
3	<u>Toughening and strengthening of Silicon carbide/Aluminium composites by the optimization of Fe₃O₄ distribution at hot rolling</u>	S. Rajesh	Mechanical	Materials Today: Proceedings	2022-2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/abs/pii/S2214785323031139	YES
4	<u>Influence on tensile and yield strength in composites of heat-treated AA6463 alloy by copper oxide nano particles</u>	S. Rajesh	Mechanical	Materials Today: Proceedings	2022-2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/abs/pii/S2214785323033370	YES
5	Comparing green Machining and clean technology based Machining for tool wear	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785322028358	YES

	reduction in Machining SAE 1045 steel								
6	Reconnoitering the influence of Nano fluid of Nano boracic acid particles enriched waste coconut oil in Machining SAE 1045 shaft on modification Surface finish	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S221478532202911X	YES
7	Experimental analysis on Feed force reduction performance by Nanofluid of Graphene Nano platelets enriched Waste Coconut Oil in wet Machining of SAE 1045 Steel Shaft	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785322029169	YES
8	Taguchi based parameter optimization for cutting force reduction in SAE 1045 steel machining with nanofluid	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785322029017	YES
9	Reconnoitering the influence of nanofluid of GnPs enriched waste coconut oil in machining SAE 1045 shaft on modification surface finish	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785322027286	YES
10	Experimentally exploring nano-fluid of GnPs enriched waste coconut oil effects in cutting zone temperature reduction in motor shaft manufacturing process	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785322028760	YES

11	Feed force based optimization of process parameters by bio-nanofluid for machining SAE 1045 steel	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785322028802	YES
12	Experimental investigations on flexural and compressive properties of epoxy resin matrix sugarcane fiber and tamarind seed powder reinforced bio-composites	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785322025354#!	YES
13	Evaluation on hardness and percentage of elongation discrepancy by Zinc oxide nanoparticles on AA6070 alloy composites	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785322005260#!	YES
14	Synthesis of Zinc oxide and CNT in AA7178 aluminium alloy composite impression on characteristics	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785322008094	YES
15	Evaluation of Mechanical Properties of Sisal and Bamboo Fibres Reinforced with Polymer Matrix Composites Prepared by Compression Moulding Process	S. Rajesh	Mechanical	Advances in Materials Science and Engineering	2021-2022	1687-8442	https://www.hindawi.com/journals/amse/	https://www.hindawi.com/journals/amse/2021/2832149/	YES
16	A review on PLA with different fillers used as a filament in 3D printing	S. Rajesh	Mechanical	Materials Today: Proceedings	2021-2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S221478532106329X	YES

Year	Name of Faculty	Publications
2015	Dr. G Deenadayalan	A study of barriers in adoption of build to order supply chain and model development for a class of customisable product
2016	Dr.S.Rajesh	<u>Performance of leaf springs made of composite material subjected to low frequency impact loading</u> S Rajesh, GB Bhaskar, J Venkatachalam, K Pazhanivel... - Journal of Mechanical Science and Technology, 2016 Cited by 24 Related articles All 9 versions
		<u>OPTIMIZATION OF COMPOSITE LEAF SPRING DESIGN USING RESPONSE SURFACE METHODOLOGY.</u> S Rajesh, GB Bhaskar, R Subash, K Pazhanivel... - Romanian Journal of Materials/Revista Romana de ..., 2017
		<u>Comparing green Machining and clean technology based Machining for tool wear reduction in Machining SAE 1045 steel</u> S Rajesh, R Saravanan, CB Sekar, C Gnanavel... - Materials Today: Proceedings, 2022
		<u>Optimisation of process parameters of chemical mechanical polishing of soda lime glass</u>
	Dr.C.Ramesh Kumar	

2019		C Ramesh Kumar, M Omkumar - Silicon, 2019
		Experimental Investigation on the Properties of Cement -PCM Mortars C.Ramesh Kumar Mechanical Iranian Journal of Science and Technology, Transactions of Civil Engineering. 2021 -2022 2364 -1843 https://www.springer.com/journal/40996 https://link.springer.com/article/10.1007/s40996-022-00874-1 YES
2023-2024	Mr.S.Karuppaswamy	Exploring the Synergy: Nano SiO ₂ Reinforcement in Basalt Fiber Epoxy Composites For Improved Tribological and Mechanical properties,-Balkan Tribological association,2024.
2023-2024	Dr. C.B. Sekar	Effect of GTA welding parameters on bead geometry of SAF2507 super duplex stainless steel
		CB Sekar, SR Boopathy, S Vijayan, SRK Rao - La Metallurgia Italiana, 2020
		Multi objective optimization of welding parameters using Taguchi based grey relation analysis in activated TIG (ATIG) welding on SAF2507 super duplex stainless steel
		CB Sekar, SR Boopathy, S Vijayan, SR Rao - AIP Conference Proceedings, 2021
2023-2024	Dr.R.K.Sundram	Effect of welding processes on ferrite content, microstructure and mechanical properties of super duplex stainless steel 2507 welds
		CB Sekar, SR KoteswaraRao, S Vijayan, SR Boopathy - Materials Testing, 2023.
2023-2024	Dr.R.K.Sundram	Effect of addition of compatibilizer on mechanical, thermal and thermo-mechanical behavior of a polymer blend (PBT/ PBT(G)/ PTT) composite Sundaram R.K., SenthilKumaran S., Edwin Samson P. Pigment & Resin Technology

		Experimental and theoretical analysis of polymer blend composites using Weibull distribution Sundaram RK, SenthilKumaran S - Journal of the Chinese Institute of ..., 2022 - Taylor & Francis
2024-2025	S. Rajesh	Friction Stir Additive Manufacturing of AA7075/Al₂O₃ and Al/MgB₂ Composites for Improved Wear and Radiation Resistance in Aerospace Applications R. Srinivasan, Amuthakkannan Rajakannu, S. Rajesh, J. Sathees Babu, G. Dinesh, S. Mayakannan
		Bioresin based hybrid green composite preparation using Holoptelea integrifolia fibers reinforced by Ziziphus jujuba seed particles: a fuzzy logic assisted optimization of mechanical behavior Sumanth Ratna Kandavalli, Vimala Devi Krishnasamy, Uday Kiran Kasi, Sudhakar Rajesh, M. Kumarasamy, Mayakannan Selvaraju, Shine Kadaikunnan and Jamal M. Khaled,

