



R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY
R.S.M NAGAR, PUDUVOYAL – 601206



DEPARTMENT OF MECHANICAL ENGINEERING
RESEARCH PUBLICATION BY FACULTY- CONSOLIDATION
ACADEMIC YEAR CAY – 2020 - 2021

NUMBER OF PUBLICATIONS OF SCOPUS	NUMBER OF PUBLICATIONS OF WEB OF SCIENCE	TOTAL
38	19	57



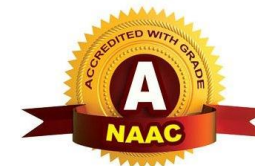
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RESEARCH PUBLICATION BY FACULTY

ACADEMIC YEAR C A Y - 2020 -2021



S.No	Name of Author	Title	Journal Name	Indexed
1)	Vinoth Kumar K. Loganathan T.G	Effect of bio waste (conch shell) particle dispersion on the performance of GFRP composite. DOI: 10.1016/j.jmrt.2020.04.042	Journal of Materials Research and Technology	WOS
2)	Mr.S.Gopinath Dr.P.K.Devan	Production Of Pyrolytic Oil From Waste Low Density Polyethylene Plastics Using Silica Alumina Catalyst And Utilization As Fuel In A Di Diesel Engine DOI: 10.1039/D0RA07073D	Royal Socieity of Chemistry Advances	WoS
3)	Balasubramanian M.	Influence of Seaweed Filler on Dry Sliding Wear of Carbon Fiber Reinforced Epoxy Composites DOI: 10.1080/15440478.2020.1787916	Journal of Natural Fibers	WOS
4)	Ashokkumar	Modelling of Mechancial Properties and High Temperature wear behaviour of Al7075/SiC/CRS Composie using RSM DOI: 10.1007/s12633-020-00801-x	Silicon	WoS
5)	Balasubramanian M.	Investigation on impact of supplier, customer and organization collaboration factors on the performance of New Product Development. DOI: 10.1007/s13198-021-01064-4	International Journal of System Assurance Engineering and Management	Wos

S.No	Name of Author	Title	Journal Name	Indexed
6)	K.Rajesh P.K.Devan	Coconut Fatty Acid Distillate As Novel Feedstock For Biodiesel Production And Its Characterization As A Fuel For Diesel Engine. DOI: 10.1016/j.renene.2020.10.082	Renewable Energy	WoS
7)	Dr.M.Balasubramanian Mr.N.Sadasivan	A Comprehensive Review On Equal Channel Angular Pressing Of Bulk Metal And Sheet Metal Process Methodology And Its Varied Applications. DOI: 10.1016/j.jmapro.2020.10.032	Journal of Manufacturing Processes	WoS
8)	P.K Devan	Optimization of surface treatment in Calotropis Gigantea (CG)-fibre yarn by simple techniques and characterization of CG fibre yarn reinforced laminate. DOI: 10.1016/j.jmrt.2020.08.058	Journal of Materials Research and Technology	wos
9)	T G Loganathan K.Vinoth Kumar	Mechanical and Vibrational property evaluation of banana fiber epoxy sandwich composite with steel wire mesh core. DOI: 10.1080/15440478.2020.1848744	Journal of natural fibers	WoS
10)	Dr .S.Senthil kumar	An Extensive Review on Thermodynamic Aspect Based Solar Desalination Techniques. DOI: 10.1007/s10973-020-10269-x	Journal of Thermal Analysis and Calorimetry	WoS
11)	Rajesh K Devan P K	Parametric Optimization and Biodiesel Production from Coconut Fatty Acid Distillate. DOI: 10.30492/IJCCE.2020.39119	Iranian Journal of Chemistry and Chemical Engineering (IJCCE)	WOS
12)	Vinothkumar K Loganathan T G	Assessment of Cyclic load Induced Energy Dissipation and Damping of GFRP composite laminate. DOI: 10.1007/s12221-020-9813-z	Fibers and Polymers	WoS
13)	Dr M.Balasubramanian	Influence of pin offset and weave pattern on performance of al-cu joints reinforced with graphene particles. DOI: 10.15282/ijame.17.3.2020.12.0616	International Journal of Automotive and Mechanical Engineering	WoS

S.No	Name of Author	Title	Journal Name	Indexed
14)	Dr.M.Balasubramanian	Surface Roughness Assessment Based On Digital Image Texture Analysis Of Cfrp Composites Machined By Swirling Abrasives.	Journal of Engineering Science and Technology	WoS
15)	S.Arunkumar	A study of wear behaviour of SiC/Al ₂ O ₃ and Eggshell/Al ₂ O ₃ Aluminium metal matrix composites. DOI: 10.1007/s12633-021-00965-0	Silicon	WoS
16)	S.Senthil Kumar	Emissions and performance investigation on the effect of propane dual fuel injection in biodiesel driven diesel engine. DOI: 10.1080/15567036.2021.1877372	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	WoS
17)	A.Balajikrishnabharathi	Experimental Study on Graphene Coating Thermosetting Epoxy Polymer for the Manufacture of Electronic Circuit Boards. DOI: /10.37358/Mat.Plast.1964	MATERIALE PLASTICE	WOS
18)	S.Senthil Kumar	Effect of nanoparticle-blended biodiesel mixtures on diesel engine performance, emission, and combustion characteristics DOI: /10.37358/Mat.Plast.1964	Green Approaches In Sustainable Energy, Engineering, Materials And Environment	WOS
19)	K.Vinothkumar T.G.Loganathan Harish Elango	Characterization of alkali treated Nelumbo-Nucifera fiber and properties of its reinforced composite. DOI: 10.1080/15440478.2020.1870640	Journal of natural fibers	WoS
20)	T.G.Loganathan	Thermo Mechanical Behaviour of NF Composites - A review. DOI: 10.1016/j.matpr.2020.07.044	Materials Today Proceedings	Scopus
21)	K.Karthik	Variation of Mechanical Properties across the Dissimilar Joints: Ferritic steel and Stainless Steel. DOI: 10.4273/ijvss.12.2.17	International Journal of Vehicle Structures & Systems	Scopus

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22)	P.K.Devan, C.Bibin,	Solar drying of fruits – A comprehensive review. DOI: 10.1016/j.matpr.2020.04.041	Materials Today: Proceedings	Scopus
23)	M.Balasubramanian,	Cold metal transfer process – A review. DOI: 10.1016/j.matpr.2020.05.225	Materials Today: Proceedings	Scopus
24)	P.K.Devan, C.Bibin,	A comprehensive review on solar tricycles. DOI: 10.1016/j.matpr.2020.03.826	Materials Today: Proceedings	Scopus
25)	S Senthil Kumar, C. Bibin,	Solar powered water pumping systems for irrigation: A comprehensive review on developments and prospects towards a green energy approach. DOI: 10.1016/j.matpr.2020.04.092	Materials Today: Proceedings	Scopus
26)	N.Aravindhhan K.Maclin John Vasanth	A novel approach for improving the performance of air engine to achieve zero-emission for a pollution-free environment. DOI: 10.1016/j.matpr.2020.02.930	Materials Today: Proceedings	Scopus
27)	Dr .S.Senthil kumar	Development of Tray Type Nursery Seeding Equipment. DOI: 10.1016/j.matpr.2020.09.066	Materials Today: Proceedings	Scopus
28)	Dr.M.Balasubramanian	Challenges In Abrasive Jet Machining Of Fibre Reinforced Polymeric Composites - A Review. DOI: 10.1088/1757-899X/906/1/012023	World Journal of Engineering	Scopus
29)	C.Bibin	Secure File Sharing System in Cloud Using AES and Time Stamping Algorithms. DOI: 10.1088/1757-899X/906/1/012023	IOP Conference Series: Materials Science and Engineering	Scopus
30)	R.AshokKumar	Fabrication and Corrosion Behaviour of Aluminium Metal Matrix Composites – A Review. DOI: 10.1088/1757-899X/923/1/012056	IOP Conference Series: Materials Science and Engineering	Scopus

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31)	K.Karthik R.AshokKumar	Tribological Behaviour of Aluminum Metal Matrix Composites – A Review. DOI: 10.1088/1757-899X/923/1/012055	IOP Conference Series: Materials Science and Engineering	Scopus
32)	K.Karthik R.AshokKumar	Investigation on mechanical properties of aluminum metal matrix composites – a review. DOI: 10.1088/1757-899X/923/1/012058	IOP Conference Series: Materials Science and Engineering	Scopus
33)	Mr.A.Balaji Krishna Bharathi,	Study of graphene coating with metals and metal Nano composites. DOI: 10.1088/1757-899X/923/1/012043	IOP Conference Series: Materials Science and Engineering	Scopus
34)	S.Senthil Gavaskar,	Review paper on solar winnowing and sieve machine. DOI: 10.5373/JARDCS/V12SP5/20201849	Journal of Advanced Research in Dynamical and control systems	Scopus
35)	K. Rajesh P.K.Devan R Saran S Vasanthakumar K Vignesh	Performance and Emission Evaluation of Diesel Engine Fueled with Karanja Methyl Ester. DOI: 10.1088/1757-899X/923/1/012068	IOP Conference Series: Materials Science and Engineering	Scopus
36)	K. Rajesh P.K.Devan B Lokesh, K Rajesh Kumar, R Vignesh R Yogesh Kumar	Investigation on performance and emission of pongamia biodiesel using diethyl ether and zinc oxide as additive in diesel engine. DOI: 10.1088/1757-899X/923/1/012069	IOP Conference Series: Materials Science and Engineering	Scopus
37)	Mr.N.Aravindhan C.Bibin D.Rokesh, D.Jagadesh, S.Pravin N. Ramkumar	Performance of statistical control tools in identifying the defect on plunger- A review. DOI: 10.1088/1757-899X/906/1/012012	IOP Conference Series: Materials Science and Engineering	Scopus
38)	Dr.M.Balasubramanian A. Nagaraja	A case study on failure analysis of fender mounting bracket of tractors by DMAIC approach in Southern India.	AIP Conference Proceedings	Scopus

S.No	Name of Author	Title	Journal Name	Indexed
		DOI: 10.1063/5.0024886		
39)	S.Arunkumar R.Ashokkumar M.SubramaniSundaram K.M.SukethKanna S.Vigneshwara	Optimization of wear behaviour of Al7075 hybrid metal matrix using taguchi approach. DOI: 10.1016/j.matpr.2020.05.453	Materials Today Proceedings	Scopus
40)	S.Arunkumar M.SubramaniSundaram K.M.Sukethkanna S.Vigneshwara	A Review on Aluminium Metal matrix composite using various reinforcements and their behavior. DOI: 10.1016/j.matpr.2020.05.053	Materials Today Proceedings	Scopus
41)	S.Gopinath P.K.Devan V.Sabarish B.V.SabharishBabu S.Sakthivel P.Vignesh	Effect of spray characteristics influences combustion in DI diesel engine – A review. DOI: 10.1016/j.matpr.2020.03.130	Materials Today Proceedings	Scopus
42)	S.Gopinath P.K.Devan C.Mohan L.R.Krishnarao P.Lokesh kumar S.Vara Prasad	A review on influence of injection timing and injection pressure on DI diesel engine fuelled with low viscous fuel. DOI: 10.1016/j.matpr.2020.04.070	Materials Proceedings	Scopus
43)	P.K.Devan S.Gowtham G.Hariharan R.Hariharan	A Comprehensive Review on Solar Cooker with Sun Tracking System. DOI: 10.1016/j.matpr.2020.06.124	Materials Today Proceedings	Scopus
44)	K.Karthik S.Prabanjan J.Rejvin Kumar S.Ramkumar A.Riswan Ahmed	Wear Behavior and metallurgical characteristics of particle reinforced metal matrix composite produced by hardfacing: A review. DOI: 10.1016/j.matpr.2020.05.527	Materials Today Proceedings	Scopus

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45)	C.Bibin M.Vijayaram V.Suriya R.Sai Ganesh S.Soundarraj	A Review on thermal issues in Li-ion battery and recent advancements in Battery thermal management system. DOI: 10.1016/j.matpr.2020.03.317	Materials Today Proceedings	Scopus
46)	C.Bibin R.Aravindraja A.Devaraja S.GokulaKrishnana J.K.S.Jeevaanathana	The Production of Biodiesel from Castor Oil as a Potential Feedstock and its usage in Compression Ignition Engine: A Comprehensive Review. DOI: 10.1016/j.matpr.2020.03.205	Materials Today Proceedings	Scopus
47)	K.Maclin John Vasanth	Experimental investigation of mechanical and tribological properties of aluminium metal matrix composites fabricated by powder metallurgy route – a review. DOI: 10.1016/j.matpr.2020.07.057	Materials Today Proceedings	Scopus
48)	M.Balasubramanian	Analysis Of Mechanical And Micro Structural Characteristics Of AA6061/SiC/Graphite Hybrid Composites With Varying Composition Of Reinforcement. DOI: 10.1063/5.0034425	AIP Proceedings	Scopus
49)	S. Senthil Kumar	Review On Usage Of Animal Waste Oil In Diesel Engine. DOI: 10.1063/5.0033969	AIP Proceedings	Scopus
50)	SankaramoorthyT, Balaji Krishna Bharathi A.	Study of graphene epoxy composites and its recent development in nano science. DOI: 10.1016/j.matpr.2020.10.218	Materials Today Proceedings	Scopus
51)	SankaramoorthyT	Investigation of the Mechanical Behavior and Impact Analysis of Hybrid Composites. DOI: 10.1088/1757-899X/988/1/012007	IOP Conference Series: Materials Science and Engineering	Scopus
52)	Devan P K	Evaluation of performance and emission of ceramic coated turbocharged direct injection diesel engine operated with diesel and	IOP Conference Series: Materials Science and Engineering	Scopus

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		biodiesel blends. DOI: 10.1088/1757-899X/653/1/012035		
53)	M. Balasubramanian N. Sadasivan	Influence of processing route on bonding of AA6082 and MgAZ31B by severe plastic deformation process. DOI: 10.1016/j.matpr.2021.01.856	Materials Today Proceedings	Scopus
54)	M. Balasubramanian N. Sadasivan	Severe plastic deformation of tubular materials – Process methodology and its influence on mechanical properties – A review DOI: 10.1016/j.matpr.2020.11.859	Materials Today Proceedings	Scopus
55)	Devan P K Anumala Gautam Krrishana, M. Ashwin, K. Bala Kumard, K. B. Dinesh	Solar powered tricycle for physically challenged. DOI: 10.1063/5.0037269	AIP conference proceeding	Scopus
56)	Vinoth Kumar K SumanthT.P. Sharvesh Ram A Santhosh Kumar S K.Yeswanth Kumar	Study of Synthesis and Analysis of Bio-Inspired Polymers-Review. DOI: matpr.2020.12.831	Materials Today Proceedings	Scopus
57)	C.Hemadri N.Bharath kumar Shailasrujan O.Lakshmi narayana C.Naveen kumar	Solar powered Semi automated Multipurpose agriculture Machine. DOI: 10.1016/j.matpr.2020.11.864	Materials Today Proceedings	Scopus