



### Department of Mechanical Engineering Paper Publications for the Academic Year 2023-24

S.No	Title of Paper	Name of the author/s	Name of the Journal/Conference	Indexing Type	Publish Year	ISSN No	e-ISSN No	DOI
1	A detailed evaluation of mechanical properties in newly developed cellulosic fiber: <i>Cissus vitiginea</i> L as a reinforcement for polymer composite	Periasamy, K., Katragadda Sudhir Chakravarthy, Jabihulla Shariff Md, and S. Madhu	Biomass Conversion and Biorefinery	SCIE/Scopus	Jun 2023	2190-6815		10.1007/s13399-023-04229-2
2	Correlation between X-ray diffraction line profile and microstructure of spheroidized Alumina micropowder for 3D printing application	Sreenivasan, M., G. Ebinezaru Babu, Ram Krishna, M. Lyutyk, and M. Barosh	International Conference on Materials, Energy and Mechanical Engineering 2021	Scopus	2023	978-073544521-5		10.1063/5.0134169
3	Biodiesel Production from Sal Oil: A Mamdani-Type Fuzzy Inference System Using The Fuzzy Logic Toolbox Graphical User Interface (GUI) Tools	Raghuram Pradhan, T. Rama Chaitanaya, Y. Srinivasa Reddy, Kondaiah Gudimetla	International Journal of Innovative Research in Engineering & Management (IJIREM)	ICI, Google Scholar, publons	August 2023	2347-5552		
4	Effect of Process Parameters on Mechanical Properties of FDM Printed Carbon Fiber PLA Part	B. Divya, M. Kiran, SK. Ameer, K. Srimannarayana, A. Jayaprakash Narayana, K. Mohith Krishna, Kota. Venkateswarlu, Kondaiah Gudimetla	International Journal of Innovative Research in Engineering & Management (IJIREM)	ICI, Google Scholar, publons	August 2023	2347-5552		



**Department of Mechanical Engineering Paper Publications for the Academic Year 2022-23**

S.No	Title of Paper	Name of the author/s	Name of the Journal/Conference	Indexing Type	Publis h Year	ISSN No	e- ISSN No	DOI
1	Validation and Profile Modification of a Spur Gear to Improve the Gear Tooth Strengths	K. Sreenivasa Rao, G.E. Babu, P. Ravi kumar, M. Anusha, A. Saiprasad, and P. Kiran babu	International Journal of Innovative Research in Computer Science & Technology (IJRCST)	ICI, Google Scholar, publons	Jul 2022	2347-5552		10.55524/ijirest.2022.10.4.27
2	Fabrication and Investigation on Basalt Fiber and Jute Fiber Reinforced Hybrid Composites	V. Sivaprasad, M. Anusha, Y. Srinivasa Reddy, V. Venugopal, S. Vishwanath, M. Selvam	International Journal of Innovative Research in Computer Science & Technology (IJRCST)	ICI, Google Scholar, publons	Sep 2022	2347 - 5552		10.55524/ijirest.2022.10.5.23
3	Fluid Flow Analysis of Concentric Heat Exchanger with Different Nano Fluids and Mass Flow Rates	G. Kondaiah, G. E. Babu, and K. Venkateswarlu	International Journal of Innovative Research in Engineering & Management (IJIREM)	ICI, Google Scholar, publons	Oct 2022	2350-0557		10.55524/ijirem.2022.9.5.28
4	Design and Topology Optimization on Car Wheel Rim Using FEA	Sai Prasad, S. Kondal Rao, and M. Anusha	International Journal of Innovative Research in Computer Science & Technology (IJRCST)	ICI, Google Scholar, publons	Nov 2022	2347-5552		10.55524/ijirest.2022.10.6.12
5	Design and Analysis of Composite Propeller Blade for Aircraft	V. Sivaprasad, Raghuram Pradhan, and K. Srinivas Rao	International Journal of Innovative Research in Computer Science & Technology (IJRCST)	ICI, Google Scholar, publons	Nov 2022	2347-5552		10.55524/ijirest.2022.10.6.13
6	To Study the Mechanical Properties of Slag and Fly Ash Reinforced As 2024 Composites	D.V. Rao, Shaik. Chand Mabhu Subhani, N. Vijay Kumar, Ch. Naveen Kumar	International Journal of Innovative Research in Engineering & Management (IJIREM)	ICI, Google Scholar, publons	Dec 2022	2350-0557		10.55524/ijirem.2022.9.6.19

7	Modeling, Aerodynamic and Crash Simulation on Car Using Fluent	heik Chand Mabhu Subhani, D. V Rao, N. Vijay Kumar, M. GunaSekhar	International Journal of Innovative Research in Engineering & Management (IJIREM)	ICI, Google Scholar, publons	Dec 2022	2350-0557		10.55524/ijirem.2022.9.6.20
8	Developing Program Code for Automatic Color Code Sensing Punching Machine Using WPL Software	P. Sravani, Shaik. Chand Mabhu Subhani, N. Vijay Kumar	International Journal of Innovative Research in Engineering & Management (IJIREM)	ICI, Google Scholar, publons	Dec 2022	2350-0557		10.55524/ijirem.2022.9.6.21
9	A detailed insight of $2 \times 2$ high isolation wideband dual notched band MIMO antenna with evolution initiated by theory of characteristics mode	Manish Sharma, Tathababu Addepalli, Rajasekhar Manda, T. Vidyavathi, Prabhakara Rao Kapula	International Journal of Microwave and Wireless Technologies	SCIE/Scopus	May 2023	1759-0787		10.1017/S1759078723000028
10	Study on the influence of stacking pattern on mechanical behaviour of banana/snake grass fibers hybrid epoxy composite	Sahoo M.R., Gopinathan R., Pradeep Kumar K.V., Juli Amala Rani J., Pradhan R., Parida L.	Materials Today: Proceedings	Scopus	Aug 2022	2214-7853		10.1016/j.matpr.2022.08.185
11	Effect of Temperature on Structural Steel (IS 2062) through Equal Channel Angular Pressing	Surendarnath S., Kondaiah G., Sankuru A.B., Ravisankar B., Sreenivasan M.	2021 International Conference on Material Research in Science and Engineering, KMRSE 2021	Scopus	Nov 2022	978-073544208-5		10.1063/5.0108366
12	Mechanical Properties and Microstructural Characterization of Al-5083 Mechanically Alloyed Powders Consolidated through ECAP Process	Gudimetla K., Surendarnath S., Sankuru A.B., Ravisankar B., Sreenivasan M.	2021 International Conference on Material Research in Science and Engineering, KMRSE 2021	Scopus	Nov 2022	978-073544208-5		10.1063/5.0108257



**Department of Mechanical Engineering Paper Publications for the Academic Year 2021-22**

S.No	Title of Paper	Name of the author/s	Name of the Journal/Conference	Indexing Type	Publish Year	ISSN No	e-ISSN No	DOI
1	Effect of processing route on microstructure, mechanical and dry sliding wear behavior of commercially pure magnesium processed by ECAP with back pressure	Sankuru A.B., Sunkara H., Sethuraman S., Gudimetla K., Ravisankar B., Kumaresh Babu S.P.	Transactions of the Indian Institute of Metals	Scopus	Nov 2021	0972-2815		10.1007/s12666-021-02340-4
2	Characterization of Optimally Alkali-treated Natural Cellulosic Fiber Extracted from the Stem of Cissus Vitifolia Plant	Katragadda S.C., Sundaram M., Palani K.	Journal of Natural Fibers	SCIE/Scopus	Jan 2022	1544-0478		10.1080/15440478.2021.1982443
3	Suitability Evaluation of Mercerized Albizia Julibrissin Fiber as a Potential Reinforcement for Bio-composites	Shariff M.D., Madhu S., Palani K.	Journal of Natural Fibers	SCIE/Scopus	Jan 2022	1544-0478		10.1080/15440478.2021.1964130
4	Characterization of Natural Cellulosic Fibers from Stem of Symphirema Involucratum Plant	Raju J.S.N., Depoures M.V., Shariff J.A.B.I.H.U.L.L.A., Chakravarthy S.U.D.H.I.R.	Journal of Natural Fibers	SCIE/Scopus	Jan 2022	1544-0478		10.1080/15440478.2021.1875376
5	Consolidation of Al-5083 alloy powders by ECAP	Gudimetla K., Sankuru A.B., Naveen B., Kumar S.R., Ravisankar B., Kumaran S.	International Journal of Materials and Product Technology	SCIE/Scopus	Apr 2022	0268-1900		10.1504/IJMPT.2022.10048565
6	Performance Analysis of The Hairpin Heat Exchanger Using Different Nano Fluids	P. Kiranbabu, V. Sivaprasad, Raghuram Pradhan, L. Ramprasad Reddy, S. Kondala Rao, and Yarram Srinivasa Reddy	International Journal of Innovative Research in Computer Science & Technology (IJIRCST)	ICI, Google Scholar, publons	May 2022	2347-5552		10.55524/ijircst.2022.10.3.61

7	Characterization of Natural Cellulose Fibers from the Stem of Albizia Julibrissin as Reinforcement for Polymer Composites	Md J.S., Madhu S., Chakravarthy K S., Siva Naga Raju J.	Journal of Natural Fibers	SCIE/ Scopus	Jun 2022	1544-0478		10.1016/j.matpr.2022.03.463
8	Crash Analysis of Bumper Assembly with Solver to Improve the Design for Impact Tests	Yarram Srinivasa Reddy, G. Kondaiah, Ganesh Naidu Gopu, K. Venkateswarlu, and A. Prudhvi Krishna	International Journal of Innovative Research in Engineering & Management (IJIREM)	ICI, Google Scholar, publons	Jun 2022	2350-0557		10.55524/ijirem.2022.9.3.27
9	Experimental investigation and optimization of flank wear during machining process using response surface methodology	Surakasi R., T.Rajendiran, Narayan P., Santhosh Kumar S., Janardhana K., Pradhan R.	Materials Today: Proceedings	Scopus	April 2022	2214-7853		10.14445/22315381/IJETT-V70I6P229
10	Material selection for metal additive manufacturing process	Malaga A.K., Agrawal R., Wankhede V.A.	Materials Today: Proceedings	Scopus	May 2022	2214-7853		10.14445/22315381/IJETT-V70I6P208
11	Performance analysis on mechanical/morphological properties of ramie-kenaf hybrid polymer composites	Sai Krishnan G., Shanmugasundar G., Vanitha M., Pradhan R., Sundar Singh Sivam S.P.	2nd International Conference on Advanced Materials Behaviour and Characterization, ICAMBC 2021	Scopus	October 2021	0094-243X	1551-7616	10.1063/5.0072635
12	A critical investigation on the performance of bael biodiesel in CI Engine	Pradhan R., Shanmugasundar G., Vanitha M., Sai Krishnan G., Sundar Singh Sivam S.P.	2nd International Conference on Advanced Materials Behaviour and Characterization, ICAMBC 2021	Scopus	October 2021	0094-243X	1551-7616	10.1063/5.0072635



**Department of Mechanical Engineering Paper Publications for the Academic Year 2020-21**

S. No	Title of Paper	Name of the author/s	Name of the Journal/Conference	Indexing Type	Publish Year	ISSN No	e-ISSN No	DOI
1	Characterization of novel natural cellulosic fiber extracted from the stem of Cissus vitiginea plant	Chakravarthy K S., Madhu S M., Naga Raju J.S., Shariff Md J.	International Journal of Biological Macromolecules	SCIE/ Scopus	Oct 2020	0141-8130	1879-0003	10.1016/j.ijbiomac.2020.07.230
2	Solving Job Shop Scheduling Problem With the Aid of Evolution of Cub to Predator	Appala Anil, K. Venkateswarlu, M. Srinivasan, Siva Kumar	International Journal of Advanced Research in Engineering and Technology	Google Scholar	Nov 2020	0976-6480	0976-6499	10.34218/IJARET.11.11.20.20.033
3	Performance, Emission & Combustion Characteristics of I.C Engine Using Jatropa Methyl Ester Oil and Bio-Diesel Blends	P. Sushma , Ch. Meenakshidevi, D. Syam Kumar, V. Venugopal, Anburaj, P. Kiran Babu	International Journal of Innovative Research in Computer Science & Technology (IJIRCST)	ICI, Google Scholar, publons	Jan 2021	2347 - 5552		10.55524/ijrcst.2021.9.1.12
4	Finite Element Analysis of Pressure Vessel Made of Different Materials Subjected To Mechanical and Thermal Loads	S Kondal Rao, Sudhir Chakravarthy K, V Siva Prasad, K Sreenivasa Rao, Juvvi Siva Naga Raju, Jabihulla Shariff Md	Design Engineering	Thomson Reuters/ DOAJ	Jul 2021	0011-9342		
5	Railway Wheel Condition Diagnoses with the Assistance of ANFIS Technique	Kaja Venkata Radhakrishna, Kota Venkateswarlu, Ajay Kumar Revuri, M. Sreenivasan	Design Engineering	Thomson Reuters/ DOAJ	Jul 2021	0011-9342		
6	Design an Artificial Neural Network Based Predictive Model for Automotive Applications	Savadi Venkata Sai Srikar, Ajay Kumar Revuri, Kota Venkateswarlu, M. Sreenivasan	Design Engineering	Thomson Reuters/ DOAJ	Jul 2021	0011-9342		
7	Comprehensive characterization of raw and alkali (NaOH) treated	Raju J.S.N., Depoures M.V., Kumaran P.	International Journal of Biological Macromolecules	Scopus	Sep 2021	0141-8130		10.1016/j.ijbiomac.2021.07.061

	natural fibers from <i>Symphirema involucreatum</i> stem							
8	Evaluation of Performance and Emission Characteristics on Diesel Engine Fueled by Diesel–Algae Biodiesel Blend with Ignition Enhancing Additives	Gurusamy A., Muhammad Irfan A.A., Sivakumar E.R., Purushothaman P.	26th National Conference on Internal Combustion Engines and Combustion, NCICEC 2019	Scopus	August 2020		9789811559952	10.1007/978-981-15-5996-9_33
9	A study on sliding wear behaviour of carbon fiber reinforced IPN composites	Suresh G., Srinivasan T., Chidambaram C.T., Santhoshpriya K., Vijayakumar K.R., Kumar M.D.	2019 International Conference on Advances in Materials Research, ICAMR 2019	Scopus	Jan 2021			10.1016/j.matpr.2020.05.124
10	Characterization of Spheroidized Alumina Powders for Ceramic 3D Printing Application	Krishna R., Sreenivasan M., Lyutyk M., Barosh M.	International Conference on Manufacturing Engineering and Materials, ICMEM 2020	Scopus	March 2021		9783030719555	10.1007/978-3-030-71956-2_20
11	A Comparative Simulation Analysis of Conventional and Composite Leaf Spring	Madheswaran D.K., Thangamuthu M., Gopi S., Krishna R., Mohan S., Jayakumar A., Chinnampalli Y., Hussain S.T.N.	International Conference on Manufacturing Engineering and Materials, ICMEM 2020	Scopus	March 2021		9783030719555	10.1007/978-3-030-71956-2_22
12	Characterization of Spheroidized Alumina Powders for Ceramic 3D Printing Application	Krishna R., Sreenivasan M., Lyutyk M., Barosh M.	International Conference on Manufacturing Engineering and Materials, ICMEM 2020	Scopus	March 2021		9783030719555	10.1007/978-3-030-71956-2_20
13	Optimization of processing temperature and back pressure of equal channel angular pressing for achieving crack-free fine grained magnesium	Sankuru A.B., Hariram M., Gudimetla K., Ravisankar B., Kumaresh Babu S.P.	2021 International Conference on Futuristic Research in Engineering Smart Materials, FRESM 2021	Scopus	June 2021	2214-7853		10.1016/j.matpr.2021.05.463
14	Comprehensive Study of Hydrogenated Diamond-Like Carbon Coated AISI	Sivakumar R., Senthilkumar P., Sreenivasan M., Krishna	International Conference on Advances in Materials	Scopus	February 2021			10.1007/978-981-15-8319-3_53

	5140 Alloy Steel	R.	Research					
15	Design and analysis of zigzag classifier in food industry applications	Reddy Y.H., Purushothaman K., Sreenivasan M., Sivakumar E.R.	1st International Conference on Physics and Energy 2021, ICPAE 2021	Scopus	March 2021	1742-6596		10.1088/1742-6596/2040/1/012040
16	A critical investigation on viscosity and tribological properties of molybdenum disulfide nano particles on diesel oil	Ramesh P., Sai Krishnan G., Pravin Kumar J., Bakkiyaraj M., Pradhan R., Ganesh Babu L.	2020 International Conference on Advanced Materials Behavior and Characterization, ICAMBC 2020	Scopus	April 2020	2214-7853		10.1016/j.matpr.2020.10.718
17	Analysis of automotive car chair	Sekhar Reddy P.C., Shariff J., Sreenivasan M., Sivakumar E.R.	International Conference on Mechanical, Electronics and Computer Engineering 2020, ICMECE 2020	Scopus	February 2021	2214-7853		10.1016/j.matpr.2020.12.1114
18	An analysis on natural fiber composite materials	Ramakrishna G., Kiran babu P., Purushothaman K., Sivakumar E.R., Sreenivasan M.	International Conference on Mechanical, Electronics and Computer Engineering 2020, ICMECE 2020	Scopus	February 2021			10.1016/j.matpr.2020.12.767
19	Experimental investigation on equally treated banana/sisal fibers based hybrid composite	Naresh Kumar T., Muralidharan K., Pradhan R., Suresh R.	1st International Conference on Recent Trends in Mechanical and Materials Engineering, ICRTMME 2019	Scopus	October 2020		9780735440135	10.1063/5.0025089
20	Study of storage modulus, lose modulus and abrasion on fiber reinforced polyester composites with locally available fiber of chicken feathers	Muralidharan K., Pradhan R., Rajendra Prasad A., Muruganandam D.	1st International Conference on Recent Trends in Mechanical and Materials Engineering, ICRTMME 2019	Scopus	October 2020		9780735440135	10.1063/5.0025080
21	Investigation on synthesise and characterizations hybrid composite with treated banana fibers	Pradhan R., Muralidharan K., Saravanan A.K., Dinesh Kumar S.K.	1st International Conference on Recent Trends in Mechanical and Materials Engineering, ICRTMME 2019	Scopus	October 2020		9780735440135	10.1063/5.0025094



22	Experimental investigation on influence of chemical treatment for natural fibers in hybrid composite of G/SB/SB/SB/G	Karthick S., Prasanna Raj Yadav S., Senthilnathan K., Pradhan R.	1st International Conference on Recent Trends in Mechanical and Materials Engineering, ICRTMME 2019	Scopus	October 2020		9780735440135	10.1063/5.0025084
23	Study of flexural strength and flexural modulus on chicken feather fiber used fiber reinforced polyester composite	Naresh Kumar T., Muralidharan K., Pradhan R., Suresh M.	1st International Conference on Recent Trends in Mechanical and Materials Engineering, ICRTMME 2019	Scopus	October 2020		9780735440135	10.1063/5.0025083
24	Experimental investigation of tensile strength and tensile modulus of fiber reinforced polyester by using chicken feather fiber	Pradhan R., Muralidharan K., Saravanan A.K., Raajasekar M.	1st International Conference on Recent Trends in Mechanical and Materials Engineering, ICRTMME 2019	Scopus	October 2020		9780735440135	10.1063/5.0025091



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DEPARTMENT OF MECHANICAL ENGINEERING

**Department of Mechanical Engineering Paper Publications for the Academic Year 2019-20**

S.No	Title of Paper	Name of the author/s	Name of the Journal/Conference	Indexing Type	Publish Year	ISSN No	e-ISSN No	DOI
1	Review - Waste Heat Harvesting System Analysis by TEG used Automobile Parts	M.Dineshkumar , R.Manivanan, R.Mohan , S.Kavitha, M.Vairavel	A Journal of Composition Theory	UGC	Jul 2019	0731-6755		
2	Art of Review - Analyzing Evolution of the Automotive Catalysts During the Previous four Decades	M.Dineshkumar , R.Manivanan, R.Mohan , S.Kavitha, M.Vairavel	Science, Technology and Development	UGC	Aug 2019	0950-0707		
3	Waste Heat Recovery System Analysis by TEG used Automobile -Catalytic Convertor	M.Dineshkumar , R.Manivanan, R.Mohan , S.Kavitha, M.Vairavel	A Journal of Composition Theory	UGC	Aug 2019	0731-6755		
4	Analyzing Heat Transmission by Sinks of an Wall - LED Using CFD	M.Dineshkumar , R.Manivanan, R.Mohan , S.Kavitha, M.Vairavel	Science, Technology and Development	UGC	Sep 2019	0950-0707		
5	Review - Experimental & Systematical Analysis Method for the Mechanical Behaviors of Crankshaft-Bearing System	M.Dineshkumar, R.Manivanan, R.Mohan , S.Kavitha, M.Vairavel	A Journal of Composition Theory	UGC	Sep 2019	0731-6755		
6	Design and Experimental Analysis of Micro Wind Turbine Blade by using Composite Material	M.Dineshkumar, R.Manivanan, R.Mohan , S.Kavitha, M.Vairavel	A Journal of Composition Theory	UGC	Sep 2019	0731-6755		
7	Simulation Analysis of RG Velocity at Gas Diffusion Layer Velocity in a Multi Pass Serpentine Flow Field PEM Fuel Cell Under Different Cell Potentials Using Automobile Vehicles	M.Dineshkumar , S.Kavitha , M.Vairavel , VinothKumar	Science, Technology and Development	UGC	Oct 2019	0950-0707		
8	Numerical Simulation Analysis of Automobile Hybrid Coil Spring Suspension System Analysis in Ansys	M.Dineshkumar, S.Kavitha, M.Vairavel, VinothKumar	A Journal of Composition Theory	UGC	Oct 2019	0731-6755		

9	Design & Analysis of Cylindrical Duct And Spiral Resonators For Attenuation of Passive Noise Control	Pradhan R., Puhan S., Sreenivasan M.	International Journal of Mechanical and Production Engineering Research and Development	Scopus	Oct 2019	2249-6890		10.24247/ijmperdoc t2019102
10	Present Modeling of a Stair Claimbing Wheel Mechanism	M.Dineshkumar , R.Manivanan, R.Mohan , S.Kavitha, M.Vairavel	Science, Technology and Development	UGC	Nov 2019	0950-0707		
11	Numerical Studies on The Cavity in Gas Oil Injector	M.Dineshkumar , R.Manivanan, R.Mohan , S.Kavitha , M.Vairavel	Science, Technology and Development	UGC	Nov 2019	0950-0707		
12	Dynamic Analysis of The Crank Shaft using Finite Element Analysis	M.Dineshkumar, S.Kavitha, M.Vairavel, R.Manivanan, R.Mohan	A Journal of Composition Theory	UGC	Nov 2019	0731-6755		
13	Performance And Emission Evaluation of Varying Compression Ratio in A Diesel Engine Fueled With B20 Blend of Sea Mango Biodiesel	V. Sivaprasad, J. Hussain, K. Venkateswarlu, G. Sai Prasad, S. Vishwanath, M. Selvam	International Journal of Innovative Research in Engineering & Management	ICI, Google Scholar, publons	Nov 2019	2347 - 5552		
14	Design Optimization And Simulation Analysis Of Formula SAE Frame Using Chromoly Steel	Kumar M. D. , Teja P. S., Krishna R., Sreenivasan M.	Journal of Engineering Sciences	Google Scholar	Dec 2019	2312-2498		10.21272/jes.2019.6 (2).d2
15	Simulation and Optimization Studies on the Ring Rolling Process Using Steel And Aluminum Alloys	Teja P. S., Kumar M. D., Krishna R., Sreenivasan M.	Journal of Engineering Sciences	Google Scholar	Dec 2019	2312-2498		10.21272/jes.2019.6 (2).e6
16	Experimental Investigation of Mechanical Properties of Ramie-Flax Hybrid Fiber Composite	Juvvi Siva Naga Raju, sudhir Chakravarthy K, jabihulla Shariff Md, Kurangi Sreenivasa Rao, V Siva Prasad	International Journal of Advanced Science and Technology	Google Scholar	Feb 2020	2005-4238		
17	Design optimization and CFD analysis of an air inlet system for SAE-student formula racing car	Dinesh Kumar M., Yogesh C., Nayab Hussain S.T., Krishna R., Sreenivasan M.	International Journal of Scientific and Technology Research	Scopus	Apr 2020	2277-8616		

18	Transient Effect of Aircraft Propeller Blade by using Composites	Kakumani Dharmateja, Ajay Kumar Revuri	European Journal of Molecular & Clinical Medicine	Publons/ Google Scholar	Jul 2020	2515-8260		
19	Investigation of Mechanical Behaviour of Hemp and Wool as Reinforced Material in FRP Composites	sudhir Chakravarthy K, Juvvi Siva Naga Raju, Kurangi Sreenivasa Rao, v Siva Prasad, jabihulla Shariff Md,	International Journal of Advanced Science and Technology	Google Scholar	July 2020	2005-4238		
20	Synthesize and wet condition based characterizations of GRP / Lye treated sisal fiber hybrid composite	Naresh Kumar T., Thirugnanam S., Pradhan R., Ganesh T., Kumar Chowdary A.V., Kumar P.A.	2019 International Conference on Nanotechnology: Ideas, Innovation and Industries, ICN 2019	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.02.709
21	Efficiency enhancement in a PV operated solar pump by effective design of VFD and tracking system	Shaik R., Beemkumar N., Adharsha H., Venkadeshwaran K., Dhass A.D.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.05.035
22	Harvesting energy from moving vehicles with single-axis solar tracking assisted hybrid wind turbine	Hemant Kumar D., Ram Krishna M., Kumar D., Pradhan R., Sreenivasan M.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.04.116
23	Performance estimation of RBME fuel for CI engine	Sambangi P., Joshua Jaya Prasad V.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.06.567
24	An investigation on luffa cylindrica fiber reinforced epoxy composite	Noone S., Purushothaman K., Pradhan R.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.07.051

25	Numerical and experimental analysis of hydroxyl-terminated poly-butadiene solid rocket motor by using ANSYS	Sai Teja P., Sudhakar B., Dhass A.D., Krishna R., Sreenivasan M.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.04.097
26	Experimental analysis of convergent inlet manifold for IC engines	Reddy Y.S., Jabihulla Shariff Md., Ashok D., Babu K.R.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.05.775
27	Numerical analysis of a variety of thermoelectric generator materials	Dhass A.D., Krishna R., Sreenivasan M.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.02.737
28	Experimental investigation of H-DLC coated exhaust valve characteristics of a diesel engine	Sivakumar E.R., Senthilkumar P., Sreenivasan M., Krishna R.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.05.776
29	Effect of temperature on internal parameters of solar cell	Dhass A.D., Prakash Y., Ramya K.C.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.06.079
30	Design of a twill pattern jute fiber composite pressure vessel	Sai Prasad A., Gopala Krishna P.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.06.112
31	Opportunities and challenges for Radio frequency plasma spheroidized nanocrystalline powders in additive manufacturing	Sreenivasan M., Krishna R., Skulskyi M., Lyutyk M.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.07.050
32	Experimental investigation of friction stir welding process with two dissimilar materials	Sai Prasad A., Polinaidu S., Raghurampradhan, Venkateswalu K.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.06.113

33	Structural and thermoelectric behavior of nanostructured porous graphite for thermoelectric power generator application	Krishna R., Sreenivasan M., Dhass A.D., Sivakumar E.R., Sai Teja P., Dinesh Kumar M., Raj Anand S.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.03.787
34	Modeling and fabrication of catalytic converter for emission reduction	Venkateswarlu K., Kumar R.A., Krishna R., Sreenivasan M.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.07.125
35	Finite element analysis of coil spring of a motorcycle suspension system using different fibre materials	Sreenivasan M., Dinesh Kumar M., Krishna R., Mohanraj T., Suresh G., Hemanth Kumar D., Sai Charan A.	2020 International Conference on Future Generation Functional Materials and Research, ICFMR 2020	Scopus	July 2020	2214-7853		10.1016/j.matpr.2020.04.051
36	An Experimental Investigation of New Hybrid Composite Material Using Ramie-Flax and Its Mechanical Properties Through Finite Element Method	Ashok D., Puhan S., Pradhan R., Kiran Babu P., Srinivasa Reddy Y.	2nd International Conference on Innovations in Mechanical Engineering, ICIME 2019	Scopus	January 2020		9789811511233	10.1007/978-981-15-1124-0_37
37	An investigation on performance analysis of different PV materials	Dhass A.D., Kumar R.S., Lakshmi P., Natarajan E., Arivarasan A.	2019 International Conference on Materials Engineering and Characterization, ICMECh 2019	Scopus	July 2019	2214-7853		10.1016/j.matpr.2019.06.005
38	Evaluation of Microalgae Biodiesel Blend Along with DTBP as an Ignition Enhancer on Diesel Engine Attributes	Gurusamy A., Gnanamoorthi V., Purushothaman P., Mebin Samuel P., Muhammad Irfan A.A.	International Conference on Design, Materials, Cryogenics and Constructions, ICDMC 2019	Scopus	June 2020	9789811536304		10.1007/978-981-15-3631-1_8
39	Experimental Analysis of Hevea Brasiliensis Methyl Ester Diesel Blend with Antioxidant Additive in a Diesel Engine	Muhammad Irfan A.A., Periyasamy S., Gurusamy A.	International Conference on Design, Materials, Cryogenics and Constructions, ICDMC 2019	Scopus	June 2020	9789811536304		10.1007/978-981-15-3631-1_10
40	Experimental investigation of mechanical properties of Jute-Ramie fibres reinforced with	Santhi K.A., Srinivas C., Kumar R.A.	2nd International Conference on Recent Trends in Metallurgy,	Scopus	May 2020			10.1016/j.matpr.2020.04.368

	epoxy hybrid composites		Materials Science and Manufacturing, IMME 2019					
41	Synthesize and wet condition based characterizations of GRP / Lye treated sisal fiber hybrid composite	Naresh Kumar T., Thirugnanam S., Pradhan R., Ganesh T., Kumar Chowdary A.V., Kumar P.A.	2019 International Conference on Nanotechnology: Ideas, Innovation and Industries, ICN 2019	Scopus	May 2020			10.1016/j.matpr.2020.02.709
42	Study on the thermal resistance comparison on Al with SiO <sub>2</sub> composites for electronics chips	Pradhan R., Chandrika V.S., Thilagavathi G., Muruganandam D., Hariprasad K., Adlin Paul J.	2019 International Conference on Nanotechnology: Ideas, Innovation and Industries, ICN 2019	Scopus	May 2020			10.1016/j.matpr.2020.02.710
43	Synthesize and general characterizations of textile-grade glass fibers/malic acid treated sisal fiber hybrid composite	Logendran D., Muruganandam D., Dinesh Kumar S.K., Abraham Eben Andrews A., Karthick P., Pradhan R.	2019 International Conference on Nanotechnology: Ideas, Innovation and Industries, ICN 2019	Scopus	May 2020			10.1016/j.matpr.2020.02.687
44	Experimental investigation on inherent properties of Hydroxybutanedioic Acid treated banana/sisal fibers based hybrid composite	Logendran D., Muruganandam D., Arunarasi J., Karthick P., Abraham Eben Andrews A., Pradhan R.	2019 International Conference on Nanotechnology: Ideas, Innovation and Industries, ICN 2019	Scopus	May 2020			10.1016/j.matpr.2020.02.708
45	Exploration of indispensable properties of textile-grade glass fibers/white caustic treated banana fiber hybrid composite	Raveendra A., Muruganandam D., Jayapriya J., Pradhan R., Sasikala V., Nithishkumar D.	2019 International Conference on Nanotechnology: Ideas, Innovation and Industries, ICN 2019	Scopus	May 2020			10.1016/j.matpr.2020.02.700



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DEPARTMENT OF MECHANICAL ENGINEERING

**Department of Mechanical Engineering Paper Publications for the Academic Year 2018-19**

S.No	Title of Paper	Name of the author/s	Name of the Journal/Conference	Indexing Type	Publish Year	ISSN No	e-ISSN No	DOI
1	Experimental Investigation of Carbon Aluminium Fiber Metal Laminate	K.Purushothaman, Raghuram Pradhan, Sukumar Puhan	International Journal of Scientific Research and Review	UGC	Jun 2018	2279-543X		



2	Fabrication and structural analysis of Traction gear using different composite materials to improve power transmission of gear	Ranjesh Kumar & K. Sudhir Chakrawarthy	International Journal of Research	UGC	Jul 2018	2236-6124		
3	Agribot-RF based farmer friendly Agricultural Robot with automatic seed dispensing system	Pirakala Athish Reddy & G.E Babu	International Journal of Research	UGC	Jul 2018	2236-6124		
4	Structural and Thermal Analysis of Aircraft Combustion Chamber Outer Case	Raghuram Pradhan, Sukumar Puhan, M.Sreenivasan	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	NASA ADS/CrossRef	Aug 2018	2278-1684		10.9790/1684-1504020517
5	Behavior of Natural Fiber-Polymer Composites using Compression Moulding Process	T. S. Krishna Kumar, Ruth Priyanka Ponnala , S. Ravi	International Journal of Engineering Research & Technology (IJERT)	Google Scholar	Dec 2018	2278-0181		
6	Material Characterization And Unconventional Machining On Synthesized Niobium Metal Matrix	Sivakandhan C., Babu Loganathan G., Murali G., Suresh Prabhu P., Marichamy S., Sai Krishnan G., Pradhan R.	Materials Research Express	Scopus	Jan 2019	2053-1591		10.1088/2053-1591/ab624d
7	Design, Analysis With Modification of Tractor Engine Muffler	P.Vamsi Krishna Reddy, SkSulthan basha, K.Ramanaiah, B.Rupesh, K.Harinadha reddy , T.S.Krishna Kumar	International Journal for Research & Development in Technology	academia.edu	Apr 2019	2349-3585		
8	Routing Customer Based on Google Map using MUGANO Protocol for Commercial Purpose Application	Pavithra J., Anand D., Srinivasan M.	2018 International Conference on Current Trends towards Converging Technologies, ICCTCT 2018	Scopus	2018	9781538637012		10.1109/ICCTCT.2018.8551015