

Publications (2023-2024)

S. No.	Faculty Name	Title	Journal Name, Publisher	Date	DOI	Indexing	Quartile Ranking	I.F.
1	Dr. P. Pramod	Impact of titanium dioxide (TiO ₂) nanoparticles addition in Eichhornia Crassipes biodiesel used to fuel compression ignition engine at variable injection pressure	Case Studies in Thermal Engineering (Elsevier)	September, 2023	https://doi.org/10.1016/j.csite.2023.103295	SCIE	Q1	6.4
2	Dr. P. Bridjesh	On Numerical Investigation of Buckling in Two-Directional Porous Functionally Graded Beam Using Higher Order Shear Deformation Theory	Mechanics of Advanced Composites Structures (Semnan University)	August, 2023	https://doi.org/10.22075/MACS.2023.29340.1462	SCOPUS	Q3	
3	Gottipati Venkata Rambabu	Energy, exergy and emission [3E] analysis of Mesua Ferrea seed oil biodiesel fueled diesel engine at variable	Fuel (Elsevier)	14-Jul-23	https://doi.org/10.1016/j.fuel.2023.129115	SCIE	Q1	7.5

		injection timings						
4	Muhammed Anaz Khan	Application of a hybrid Taguchi grey approach for determining the optimal parameters on wire electrical discharge machining of Ti6Al4V	International Journal on Interactive Design and Manufacturing (IJIDeM), Springer	01-Jul-23	https://doi.org/10.1007/s12008-023-01440-3	ESCI	Q2	2.5
5	Muhammed Anaz Khan	A hybrid learning approach for modelling the fabrication of super duplex stainless steel thin joints using GTAW process	International Journal on Interactive Design and Manufacturing (IJIDeM), Springer	July, 2023	https://doi.org/10.1007/s12008-023-01413-6	ESCI	Q2	2.5
6	J. Laxmi Prasad	Implementation and Manufacturing of DT Sensor Ecosystem for Real-Time Monitoring of Virtual 3D Printers	SN Computer Science, Springer	July, 2023	https://doi.org/10.1007/s42979-023-01969-w	SCOPUS	Q2	
7	Jyot hula Sunil Kumar	Optimization of Flexible Manufacturing Production Line System	SN Computer Science, Springer	July, 2023	https://doi.org/10.1007/s42979-023-01978-9	SCOPUS	Q2	

		Based on Digital Twin						
8	Dr. P. Bridjesh	Higher Order Shear Deformation Theory for Functionally Graded Porous Beam - Numerical Free Vibrational Analysis	Journal of Engineering Science and Technology Review	October, 2023	doi:10.25103/jestr.165.08	SCOPUS	Q4	
9	Dr. P. Bridjesh	Development of mechanical & wear properties of MMC & Al6082 / Granite dust	Academic Journal Of Manufacturing Engineering	Oct-23				
10	Dr. P. Bridjesh	Analytical Modelling of a Multi-Functional Heterogeneous Beam-Bending Analysis	Proc IMechE Part E: J Process Mechanical Engineering, Sage	Oct-23	DOI: 10.1177/09544089231207421	SCIE	Q2	2.2
11	Mr. Prabhukishore	Numerical analysis of supersonic combustion of hydrogen flow characteristics in scramjet combustor toward the improvement of combustion efficiency	International Journal of Hydrogen Energy, Elsevier	DEC, 2023	10.1016/j.ijhydene.2022.09.135	SCIE	Q1	8.3

12	Mr. Venkata Ram babu, Gottipati	Energy, exergy and emission [3E] analysis of Mesua Ferrea seed oil biodiesel fueled diesel engine at variable injection timings	Fuel (Elsevier)	DEC, 2023	10.1016/j.fuel.2023.129115	SCIE	Q1	7.5
13	Dr. P. Bridjesh	On Numerical Investigation of Buckling in Two-Directional Porous Functionally Graded Beam Using Higher Order Shear Deformation Theory	Mechanics of Advanced Composites (Semnan University)	November, 2023	10.22075/macs.2023.29340.1462	SCOPUS	Q3	
14	Dr. Ch. Ravi Kiran	Performance Analysis of a DI Diesel Engine using Prosopis Juliflora Biodiesel in Conjunction with Hydrogen Fuel	International Journal of Vehicle Structures and Systems	March, 2024	https://doi.org/10.4273/ijvss.16.1.12		Q4	
15	Dr. Ch. Ravi Kiran	Mechanisms of Diffusion thermo and Thermal diffusion on MHD Mixed Convection Flow of Casson fluid over a vertical	Journal of Advanced Research in Numerical Heat Transfer, Resurchify	March, 2024	https://doi.org/10.37934/arnht.17.1.2943	Scopus	Q3	

		cone with porous material in the presence of thermophoresis and a Brownian motion						
16	P. Pramod Kumar	Teaching and Research – How the Duo are not Mutually Exclusive	Journal of Engineering Education Transformations	March, 2024	https://doi.org/10.16920/jeet/2024/v37issues2/24113	SCOPUS	Q2	
17	Mr. N. Prabhukishore	Trade-off study on environmental aspects of a reactivity controlled compression ignition engine using 1-hexanol and jatropa oil/diesel in dual fuel mode	Applied Thermal Engineering, Elsevier	March, 2024	https://doi.org/10.1016/j.applthermaleng.2024.122891	SCIE	Q1	6.9
18	G. Chandramohana Reddy	Comparison of Deflection in Two-Directional Functionally Graded Tapered Beam	Mechanics of Advanced Composites, Semnan University	April, 2024	https://doi.org/10.22075/MACS.2023.29871.1478	SCOPUS	Q3	
19	Ch. Ravikiran	Experimental and numerical analysis of the Microstructure and mechanical	Composites Structures, Elsevier	Jan-24	https://doi.org/10.1016/j.compstruct.2024.117887	SCIE	Q1	7.1

		properties of unidirectional glass fiber reinforced epoxy composites						
20	Jyot hula Sunil Kumar	Investigation of Mechanical Characteristics of 3D Printed Composite Materials (Thermoplastic Urethane and Nylon (PA6))	Journal of Polymer & Composites	DEC, 2023	10.37591/JoPC			
21	Jyot hula Sunil Kumar	Investigation Into Mechanical Characteristics of Laminated Composite Materials (PMMA and Nylon) Using FDM	Journal of Polymer & Composites	February, 2024	10.37591/JoPC			
22	Reddy M.V.	A novel optimization approach for biohydrogen production using algal biomass	International Journal of Hydrogen Energy, Elsevier	January, 2024	10.1016/j.ijhydene.2022.09.274	SCIE	Q1	8.3
23	Anaz Khan M.	Experimental Investigation on the Influence of Deep Cryogenic Soaking of Additive Manufactured	High Temperature Corrosion of Materials, Springer	March, 2024	10.1007/s11085-024-10235-0	SCIE	Q2	2

		SS 316L on Hardness and Corrosion Resistance						
24	Phani Babu V.V.	An experimental investigation on surface quality of 3D metal printed SS316L by direct metal laser sintering technique	International Journal on Interactive Design and Manufacturing, Springer	April, 2024	10.1007/s12008-024-01801-6	ESCI	Q2	2.5
25	Babu V.V. P	Dimensional accuracy testing and analysis of 3D metal printed SS316L using DMLS technique	International Journal on Interactive Design and Manufacturing, Springer	Apr-24	10.1007/s12008-024-01824-z	ESCI	Q2	2.5
26	Dr. Ravi kiran	The effects of gradient index, aspect ratio, porosity, and boundary conditions on the buckling behavior of functionally graded porous beams: A k-out-of-n system reliability analysis	Results in Physics, Elsevier	May, 2024	10.1016/j.rinp.2024.107634	SCIE	Q1	4.6

27	SUN NA M NAG ARA JU	Automated Diabetic Foot Ulcer Detection and Classification Using Deep Learning	IEEE Access	Novembe r, 2023	10.1109/ACCE SS.2023.33322 92			
28	M. Sun dee p	ANTIHYPERTE NSIVE EFFECT OF Rauwolfia serpentina FOR TREATING CARDIOVASC ULAR DISEASE AND ANXIETY	Oxidation Communi cations	April, 2024				
29	G. Cha ndra Moh ana Red dy	Comparison of Deflection in Two- Directional Functionally Graded Tapered Beam	Mechanic s of Advanced Composit e Structure s	April, 2024	https://doi.org/10.22075/MACS.2023.29871.1478			
30	G. Cha ndra Moh ana Red dy	An investigation into the numerical analysis of refined higher order shear deformation theory for frequency responses of two- directional functionally graded taper beams	Journal of Computat ional Applied Mechanic s	May, 2024	10.22059/JCA MECH.2024.37 4727.1029			
31	Dr. Ch. Ravi Kiran	Enhancement of Heat Transfer Coefficient in Double Pipe	2nd International Conference on	May, 2024	10.2139/ssrn.4764964			

		Heat Exchanger using Nanoparticles of different concentrations with base fluid water	Mechanical Engineering: Researches and Evolutionary Challenges – 2024		
32	M. Mahenderreddy	Assessing Eco Friendly Alternatives: Composite Fibers and Recycled Plastics for Sustainable Impact and Efficiency	16 th International Conference on Materials Processing and Characterization (ICMPC 2024)	March, 2024	https://doi.org/10.1051/e3sconf/202455201089
33	T. Mahender	Optimization of biodiesel blend on single cylinderdiesel engine using Taguchi method	6th International Conference on Advancements in Materials and Manufacturing	16-02-2024	10.1088/1742-6596/2837/1/012016
34	J. Krishnaraj	Design and Analysis of Work Holding Device forConvex Milling	6th International Conference on Advancements in Materials and Manufacturing	16-02-2024	10.1088/1742-6596/2837/1/012061
35	J. Krishnaraj	An examination and characterization study of thealuminum alloy Duralumin (AA2014)	6th International Conference on Advancements in Materials and Manufacturing	16-02-2024	10.1088/1742-6596/2837/1/012086
36	Lokasani Bhanuprakash	A Review of Thermoplastic Filament ExtruderDesign	6th International Conference on	16-02-2024	10.1088/1742-6596/2837/1/012083

		and Fabrication Technologies	Advancements in Materials and Manufacturing		
37	Harikishor Kumar	Microstructural and mechanical Characterization of friction stir processed A356 alloy	6th International Conference on Advancements in Materials and Manufacturing	16-02-2024	10.1088/1742-6596/2837/1/012023
38	Harikishor Kumar	Particles reinforcement via friction stir processing (FSP): A Review	6th International Conference on Advancements in Materials and Manufacturing	16-02-2024	10.1088/1742-6596/2837/1/012069
39	Vemuri Venkata Phani Babu	The creation and assessment of an electrical all-terrain vehicle and its effects on efficiency	6th International Conference on Advancements in Materials and Manufacturing	16-02-2024	10.1088/1742-6596/2837/1/012100
40	Peyyala Pramod Kumar	Development of Regression model and Optimization of Process Parameters for Wire Electrical Discharge of SAE 1010 Steel using Taguchi Grey Approach	6th International Conference on Advancements in Materials and Manufacturing	16-02-2024	10.1088/1742-6596/2837/1/012084

41	Jyothula Sunil Kumar	Application of Taguchi-Grey approach for wireelectro discharge machining of aluminium alloy	6th International Conference on Advancements in Materials and Manufacturing	16-02-2024	10.1088/1742-6596/2837/1/012085
42	Peyyala Pramod Kumar	Exploration into assessing the mechanical characteristics of PETG pieces through the use of 3D printed material element tribology	6th International Conference on Advancements in Materials and Manufacturing	16-02-2024	10.1088/1742-6596/2837/1/012089
43	S.Nagaraju	Innovative and Sustainable Transformation of Industrial Sector as a Green Manufacturing Approach	16th International Conference on Materials Processing and Characterization (ICMPC 2024)	Feb 2024	https://doi.org/10.1051/e3sconf/202455201093
44	G. Ananda Rao	Comparatively Study of Compressive Strength of Self-Compacting Concrete with Different Concrete Grade	16th International Conference on Materials Processing and Characterization (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201091
45	N. Prabhu Kishore	A Comparative Study of Analyzing the Impact of Various RCC Building Shapes on Wind Performance	16th International Conference on Materials Processing and Characterization (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201117

46	N.E. Chandr aPrasad	Thermal Analysis of RadiatorUsing Sustainable Grapheneoxide Nanofl uid Mixture ofEthylene Glycol and Water	16th International Conference on MaterialsPro cessing and Characterizat ion (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201103
47	K. Limbad ri	Finite Element Analysis of3D Printed Block Prepared ofSustainable AcrylonitrileButa diene Styrene (ABS)	16th International Conference on MaterialsPro cessing and Characterizat ion (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201104
48	Ch. Ravi Kiran	CFD Analysis of usingDeionized Water in Radiator to Enhance the Effi ciency forSustainable Growth	16th International Conference on MaterialsPro cessing and Characterizat ion (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201107
49	Harikis hor Kumar	Towards SustainableCera mic Forming:Techniq ues, Materials, andApplications in EvolvingParadig ms	16th International Conference on MaterialsPro cessing and Characterizat ion (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201099
50	Lokasa ni Bhanup rakash	An Analysis of the StructuralPropert ies of 3D PrintedSquare Blocks Preparedusing SustainableTher moplastic Polyurethane(TP U) Material	16th International Conference on MaterialsPro cessing and Characterizat ion (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201102
51	Muham med	Sustainable SurfaceEngineeri ng	16th International Conference	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201094

	Anaz Khan	Techniques: Evaluating the Environmental Footprint of Laser and Electron Beam Methods	on Materials Processing and Characterization (ICMPC 2024)		
52	P. Pramod Kumar	Comparative Study Probabilistic Seismic Risk Assessment for Regular and Irregular RCC Buildings	16th International Conference on Materials Processing and Characterization (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201118
53	Chintala Murali Krishna	Parametric Optimization of Circular Elevated Water Tanks Under Various Capacities and Seismic Conditions	16th International Conference on Materials Processing and Characterization (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201119
54	M. Venkateswar Reddy	Comparative Study of Destructive Method and Non-destructive with Ultra-Sonic Pulse Velocity Method	16th International Conference on Materials Processing and Characterization (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201110
55	Vemuri Venkata Phani Babu	Hysteresis Stress, Strain and Penetration Analysis of Spur Gear Assembly for Various Sustainable Design	16th International Conference on Materials Processing and Characterization (ICMPC 2024)	Feb, 2024	https://doi.org/10.1051/e3sconf/202455201101