

Publications (2024-25)

S. No.	Faculty Name	Title	Journal, Publisher	Date	DOI	Indexing	Quartile Ranking	I.F.
1	Ravikiran Chintal apudi	The novel Vogel's approximation method integrated with a random forest algorithm in the vibration analysis of a two-directional functionally graded tapered porous beam: Assessment	Scientific African, Elsevier	Sep-24	https://doi.org/10.1016/j.sciaf.2024.e02397	ESCI	Q1	3.3
2	Chintal apudi Ravi Kiran	Experimental and simulation study of American saffron seed oil blended with diesel	HELIYON, Elsevier	Jul-24	https://doi.org/10.1016/j.heliyon.2024.e34959	SCIE	Q1	3.6
3	G. Chandr a Mohan aReddy	On Numerical Analysis Of Refined Higher Order Shear Deformation Theory For Frequency Responses Of Two-	ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING	Oct-24	10.22059/jcamech.2024.374727.1029			

		Directional Functionally Graded Taper Beams						
4	J. Laxmi Prasad	Designing and manufacturing for concrete structure with construction waste analysis using big data and artificial intelligence	Advances in Concrete Constructi on, techno India Press	Aug- 24	https://doi.org/ 10.1298 9/acc.2024.18. 2.115		Q2	
5	J. Laxmi Prasad	Performanc e optimizatio n for solar photovoltaic thermal system with spiral rectangular absorber using Taguchi method	Scientific Reports, Nature	Oct- 24	https://doi.org/ 10.103 8/s41598-024- 73065-9	SCIE	Q1	3.5
6	Ravikir an Chintal apudi	Novel design of serpentine channel heat sinks with rectangular and triangular ribs and grooves for 25Ah Li-ion battery thermal	Internation al Journal of Thermoflu ids, Elsevier	01- Dec- 24	https://doi.org/ 10.1016/j.ijft.2 024.101011	SCOP US		

		managemen t						
7	Sunnam Nagaraju	Experimental investigation on dynamic wireless charging system for electric vehicles using different shape coils	Energy Sources, Part A: Recovery, Utilization , and Environm ental Effects	01- Dec- 24	https://doi.org/ 10.1080/15567 036. 2024.2443946			
8	G.V. Rambabu	Energy efficiency and concrete waste managemen t based on machine learning in sustainable construction	Advances in Concrete Constructi on, ORES	Aug, 2024	DOI: 10.12989/acc.2 024.18.2.125	SCOP US	Q2	
9	G Chandra Mohan a Reddy	Comparativ e Investigatio n of Deflection in a Two- directional Functionall y Graded Porous Curved and Straight Beams Adapting Unified Shear Deformatio n Theory	Journal of Computati onal Applied Mechanics	Jan- 25	10.22059/jcam ech.2024.3772 99.1113		Q3	

10	Harikishor Kumar	Fabrication of Cu/SiC Surface Composite via Thermo-Mechanical Process (Friction Stir Processing) for Heat Sink Application	Materials, MDPI	March, 2025	https://doi.org/10.3390/ma18051179	SCIE	Q2	3.2
11	SUNN AM NAGARAJU	Engineered Quantum Dot Solar Cells: From Fundamentals to Applications	Plasmonic	March, 2025	https://doi.org/10.1007/s11468-025-02915-7	SCIE	Q3	4.3
12	SUNN AM NAGARAJU	Advances in bioink-based 3D printed scaffolds: optimizing biocompatibility and mechanical properties for bone regeneration	Biomaterials Science, The Royal Society of chemistry	April, 2025	10.1039/d4bm01606h	SCIE	Q1	6.6
13	SUNN AM NAGARAJU	Genetic and bioactive functionalization of bionics for 3D bioprinting	Bioprocesses and Biosystems Engineering, Springer	May, 2025	https://doi.org/10.1007/s00449-025-03180-y	SCIE	Q2	3.6
14	Moyya Sundeep	Design and Analysis of Connecting Rod Using Aluminium Silicon Carbide	GIS Science Journal	May, 2025				

15	Harikishor Kumar	Synergistic mechanisms of fly ash reinforcement on the mechanical characteristics, deformation behaviour, grain refinement, and grain boundary in friction stir processed copper matrix composites	Journal of Materials Research and Technology, Elsevier	May, 2025	https://doi.org/10.3390/met15050469	SCIE	Q1	6.6
16	Ravikiran Chintalapudi	Performance of Liquid Nitrogen (LN2) on Machining Pure Titanium (Grade 2): A Comparative Study	ICASMM T 2024, MLRIT	October, 2024	https://doi.org/10.1051/matecconf/202440503002			
17	Ravikiran Chintalapudi	Effect of Vibration Control Mechanisms on the Vibrational Behavior of Al 6061/SiC Composite Beam	ICASMM T 2024, MLRIT	October, 2024	https://doi.org/10.1051/matecconf/202440502003			
18	T Mahender	Optimization of biodiesel blend on single cylinder diesel engine using Taguchi method	ICAAMM 2024 & MLRIT	October, 2024	doi:10.1088/1742-6596/2837/1/012016			

19	J. Krishnaraj	An examination and characterization study of the aluminum alloy Duralumin (AA2014)	ICAAMM 2024 & MLRIT	October, 2024	10.1088/1742-6596/2837/1/012086
20	J. Krishnaraj	Design and Analysis of Work Holding Device for Convex Milling	ICAAMM 2024 & MLRIT	October, 2024	10.1088/1742-6596/2837/1/012061
21	Jyothula Sunil kumar	Characterisation of Nano Aluminium Oxide Filled Hybrid Cotton Glass FRP Composite Structures	ICASMM T 2024, MLRIT	October, 2024	https://doi.org/10.1051/matec/conf/202440502002
22	Sunnam Nagaraju	Static Behavioral Studies of a 2D Taper Beam using Finite Elements Comprised of Functionally Graded Materials	ICASMM T 2024, MLRIT	October, 2024	https://doi.org/10.1051/matec/conf/202440503003
23	Lokasani Bhanuprakash	A Review of Thermoplastic Filament Extruder Design and Fabrication Technologies	ICAAMM 2024 & MLRIT	October, 2024	DOI 10.1088/1742-6596/2837/1/012083
24	Harikishor Kumar	Microstructural and mechanical Characterization of	ICAAMM 2024 & MLRIT	October, 2024	DOI 10.1088/1742-6596/2837/1/012023

		friction stir processed A356 alloy			
25	Harikishor Kumar	Particles reinforcement via friction stir processing (FSP): A Review	ICAAMM 2024 & MLRIT	October, 2024	DOI 10.1088/1742-6596/2837/1/012069
26	Vemuri Venkata Phani Babu	The creation and assessment of an electrical all-terrain vehicle and its effects on efficiency	ICAAMM 2024 & MLRIT	October, 2024	DOI 10.1088/1742-6596/2837/1/012100
27	Peyyala Pramod Kumar	Development of Regression model and Optimization of Process Parameters for Wire Electrical Discharge of SAE 1010 Steel using Taguchi Grey Approach	ICAAMM 2024 & MLRIT	October, 2024	DOI 10.1088/1742-6596/2837/1/012084
28	J. Sunil Kumar	Application of Taguchi-Grey approach for wire electro discharge machining of aluminium alloy	ICAAMM 2024 & MLRIT	October, 2024	DOI 10.1088/1742-6596/2837/1/012085
29	Peyyala Pramod Kumar	Exploration into assessing the mechanical characteristics of PETG pieces	ICAAMM 2024 & MLRIT	October, 2024	DOI 10.1088/1742-6596/2837/1/012089

		through the use of 3D printed material element tribology			
30	G Ananda Rao	Examination of the Impact of suitable Process Parameters on the Cold Extrusion of AA5754	ICAAMM 2024 & MLRIT	October, 2024	DOI 10.1088/1742-6596/2837/1/012088
31	Chandra Mohana Reddy G	Analysis of Stress Distribution in a Curved Functionally Graded Porous Beam Using the Unified Shear Deformation Theory	ICASMM T 2024, MLRIT	October, 2024	https://doi.org/10.1051/matec/conf/202440503001
32	Prabhu Kishore N	Evaluation of Heat Dissipation Efficiency in Rectangular Heat Sinks with Ceramic Coating across Different Base Materials	ICASMM T 2024, MLRIT	October, 2024	https://doi.org/10.1051/matec/conf/202440503004
33	Venkateswar Reddy M	Experimental Analysis of Diesel Engine Performance and Emissions with the Integration of Cyclonic Separator Device	ICASMM T 2024, MLRIT	October, 2024	https://doi.org/10.1051/matec/conf/202440503006

34	Chandra Mohana Reddy G	Performing FEM Analysis to Evaluate the Static and Thermal Characteristics of a Piston	ICASMM T 2024, MLRIT	October, 2024	https://doi.org/10.1051/mateconf/202440503007
35	M SUNDEEP	Suspension Bridges Versus Cable-Stretched Bridges: A Comparison of Structural Behaviour and Performance	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201112
36	Gottipati Venkata Rambabu	Comparative Study of Non-Destructive test with different methods in various curing days	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201090
37	Vemuri Venkata Phani Babu	Hysteresis Stress, Strain and Penetration Analysis of Spur Gear Assembly for Various Sustainable Design	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201101
38	M. Venkateswar Reddy	Comparative Study of Destructive Method and Non-destructive with Ultra-Sonic Pulse Velocity Method	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201110

39	Chintala Murali Krishna	Parametric Optimization of Circular Elevated Water Tanks Under Various Capacities and Seismic Conditions	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201119
40	P. Pramod Kumar	Comparative Study Probabilistic Seismic Risk Assessment for Regular and Irregular RCC Buildings	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201118
41	Muhammed Anaz Khan	Sustainable Surface Engineering Techniques: Evaluating the Environmental Footprint of Laser and Electron Beam Methods	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201094
42	Lokasani Bhanuprakash	An Analysis of the Structural Properties of 3D Printed Square Blocks Prepared using Sustainable Thermoplastic Polyurethane (TPU) Material	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201102
43	Harikishor Kumar	Towards Sustainable Ceramic	ICMPC 2024,	July, 2024	https://doi.org/10.1051/e3sconf/202455201099

		Forming: Techniques, Materials, and Applications in Evolving Paradigms	Nirma University		
44	Ch. Ravi Kiran	CFD Analysis of using Deionized Water in Radiator to Enhance the Efficiency for Sustainable Growth	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201107
45	K. Limbadri	Finite Element Analysis of 3D Printed Block Prepared of Sustainable Acrylonitrile Butadiene Styrene (ABS)	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201104
46	N.E. Chandra Prasad	Thermal Analysis of Radiator Using Sustainable Graphene oxide Nanofluid Mixture of Ethylene Glycol and Water	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201103
47	N. Prabhu Kishore	A Comparative Study of Analyzing the Impact of Various RCC Building Shapes on	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201117

		Wind Performance			
48	G. Ananda Rao	Comparative Study of Compressive Strength of Self-Compacting Concrete with Different Concrete Grade	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201091
49	S. Nagaraju	Innovative and Sustainable Transformation of Industrial Sector as a Green Manufacturing Approach	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201093
50	M. Mahenderreddy	Assessing Eco-Friendly Alternatives: Composite Fibers and Recycled Plastics for Sustainable Impact and Efficiency	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201089
51	M. Sundeep	Suspension Bridges Versus Cable-Stretched Bridges: A Comparison of Structural Behaviour and Performance	ICMPC 2024, Nirma University	July, 2024	https://doi.org/10.1051/e3sconf/202455201112
52	Lokasani Bhanuprakash	Artificial Intelligence in Healthcare Opportunities	Harnessing Innovation for Sustainability	March, 2025	https://doi.org/10.1051/itmconf/20257604006

		s and Challenges for Personalized Medicine	ity in Computing and Engineering Solutions (ICSICE-2025)		
53	Rambabu G V	Cyber-Physical Systems in Smart Grids Enhancing Energy Management and Distribution Efficiency	Harnessing Innovation for Sustainability in Computing and Engineering Solutions (ICSICE-2025)	March, 2025	https://doi.org/10.1051/itmconf/20257603006
54	Rambabu G V	Virtual Reality Applications in Healthcare Rehabilitation Therapy and Medical Training Innovations	Harnessing Innovation for Sustainability in Computing and Engineering Solutions (ICSICE-2025)	March, 2025	https://doi.org/10.1051/itmconf/20257604001
55	Prabhu Kishore N	Artificial Intelligence in Healthcare a New Technology for Medicine	Harnessing Innovation for Sustainability in Computing and Engineering Solutions (ICSICE-2025)	March, 2025	https://doi.org/10.1051/itmconf/20257604005