

Rajkumar Sivanraju

List of Publications by Year in descending order

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56
papers

750
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759233

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56
all docs

56
docs citations

56
times ranked

241
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of nanofluids on heat transfer characteristics in shell and tube heat exchanger. Thermal Science, 2022, 26, 835-841.	1.1	91
2	Heat transfer analysis in counter flow shell and tube heat exchanger using of design of experiments. Thermal Science, 2022, 26, 843-848.	1.1	87
3	Review on application of phase change material for BIPV system. Materials Today: Proceedings, 2022, 59, 1243-1248.	1.8	3
4	Processing of Aluminium-Silicon Alloy with Metal Carbide as Reinforcement through Powder-Based Additive Manufacturing: A Critical Study. Scanning, 2022, 2022, 1-14.	1.5	52
5	Performance of air plasma sprayed Cr ₃ C ₂ –25NiCr and NiCrMoNb coated X8CrNiMoVNb16–13 alloy subjected to high temperature corrosion environment. Materials Research Express, 2022, 9, 016520.	1.6	1
6	Synthesis and Characterization of Mechanical Properties of AA8014 + Si ₃ N ₄ / ZrO ₂ Hybrid Composites by Stir Casting Process. Advances in Materials Science and Engineering, 2022, 2022, 1-11.	1.8	13
7	Implementation of Taguchi and Genetic Algorithm Techniques for Prediction of Optimal Part Dimensions for Polymeric Biocomposites in Fused Deposition Modeling. International Journal of Biomaterials, 2022, 2022, 1-7.	2.4	8
8	Flame Resistance Characteristics of Woven Jute Fiber Reinforced Fly Ash Filled Polymer Composite. Journal of Nanomaterials, 2022, 2022, 1-12.	2.7	12
9	Performance Comparison and Critical Finite Element Based Experimental Analysis of Various Forms of Reinforcement Retaining Structural System. Mathematical Problems in Engineering, 2022, 2022, 1-13.	1.1	7
10	Hot corrosion behaviour of constant and pulsed current welded Hastelloy X in Na ₂ SO ₄ , V ₂ O ₅ , and NaCl salt mixture at 900 Å°C. Materials Research Express, 2022, 9, 020008.	1.6	3
11	Multiobjective Optimization of EDM Parameters for Rice Husk Ash/Cu/Mg-Reinforced Hybrid Al-0.7Fe-0.6Si-0.375Cr-0.25Zn Metal Matrix Nanocomposites for Engineering Applications: Fabrication and Morphological Analysis. Journal of Nanomaterials, 2022, 2022, 1-15.	2.7	12
12	Corrosion Zones of Rebar in High-Volume Fly-Ash Concrete through Potentiodynamic Study in Concrete Powder Solution Extracts: A Sustainable Construction Approach. Advances in Civil Engineering, 2022, 2022, 1-11.	0.7	3
13	Optimization of FDM Printing Process Parameters on Surface Finish, Thickness, and Outer Dimension with ABS Polymer Specimens Using Taguchi Orthogonal Array and Genetic Algorithms. Mathematical Problems in Engineering, 2022, 2022, 1-13.	1.1	19
14	Design and Analysis of a Low-Cost Electronically Controlled Mobile Ventilator, Incorporating Mechanized AMBU Bag, for Patients during COVID-19 Pandemic. Journal of Healthcare Engineering, 2022, 2022, 1-15.	1.9	3
15	Alloy 617 welding of similar and dissimilar materials: A review. Materials Today: Proceedings, 2022, 59, 1561-1565.	1.8	3
16	A Novel Smart Production Management System for the Enhancement of Industrial Sustainability in Industry 4.0. Mathematical Problems in Engineering, 2022, 2022, 1-24.	1.1	8
17	Development of a Data-Driven Decision-Making System Using Lean and Smart Manufacturing Concept in Industry 4.0: A Case Study. Mathematical Problems in Engineering, 2022, 2022, 1-20.	1.1	11
18	Synthesis and Experimental Investigations of Tribological and Corrosion Performance of AZ61 Magnesium Alloy Hybrid Composites. Journal of Nanomaterials, 2022, 2022, 1-12.	2.7	13

#	ARTICLE	IF	CITATIONS
19	State of the art review on the sustainable dry machining of advanced materials for multifaceted engineering applications: progressive advancements and directions for future prospects. Materials Research Express, 2022, 9, 064003.	1.6	25
20	Influence of temperature on flat-wise tensile strength of Al3003 honeycomb sandwich panels. Materials Today: Proceedings, 2021, 37, 1938-1942.	1.8	1
21	Strength and stiffness characteristics of A3003 aluminum honeycomb core sandwich panels. Materials Today: Proceedings, 2021, 37, 1140-1145.	1.8	7
22	Parametric optimization of electrical discharge machining on Al-TiC composites using Grey relational analysis. Materials Today: Proceedings, 2021, 37, 1254-1263.	1.8	0
23	Performance analysis of compression ignition (CI) engine using biodiesel. Materials Today: Proceedings, 2021, 37, 1422-1426.	1.8	1
24	Experimental evaluation of mechanical properties of polymer matrix composites reinforced with date palm frond fibers from Oman. Materials Today: Proceedings, 2021, 37, 3372-3380.	1.8	8
25	Taguchi optimization of drilling process parameters on LM13/10Åwt%Graphene composites made by stir casting process. Materials Today: Proceedings, 2021, 47, 431-436.	1.8	2
26	An insight into stress and strain analysis over on hexagonal aluminium sandwich honeycomb with various thickness glass fiber face sheets. Materials Today: Proceedings, 2021, 47, 493-499.	1.8	13
27	Investigation on mechanical properties of AA2024/HBN composites prepared by stir casting method. Materials Today: Proceedings, 2021, 47, 396-399.	1.8	2
28	Influence of Filler Wire and Welding Process to Mitigate the Microsegregation of Alloy C-2000 Using Continuous and Pulsed Current Gas Tungsten Arc Welding Techniques. Journal of Materials Engineering and Performance, 2021, 30, 6050-6067.	2.5	10
29	Hybrid Multi-Sensor Integration for Static or Dynamic Obstacle Detection, Tracking and Classification for Autonomous Vehicle. Shanghai Ligong Daxue Xuebao/Journal of University of Shanghai for Science and Technology, 2021, 23, 1288-1293.	0.1	0
30	Weldability Investigation and Optimization of Process Variables for TIG-Welded Aluminium Alloy (AA) Tj ETQq0 0 0 regBT /Overlock 10 Tf	1.8	26
31	Strength Enhancement Study on Composites of AA6066 Aluminium Alloy with Magnesium Oxide and Coal Ash. Advances in Materials Science and Engineering, 2021, 2021, 1-8.	1.8	9
32	Study on Compaction and Machinability of Silicon Nitride (Si3N4) Reinforced Copper Alloy Composite through P/M Route. International Journal of Polymer Science, 2021, 2021, 1-10.	2.7	8
33	Improving the Mechanical Properties of Natural Fiber Composites of Hemp Fiber with Ramie and Banana Fiber through Compression Molding Method. Advances in Materials Science and Engineering, 2021, 2021, 1-8.	1.8	15
34	An Unconventional Approach for Analyzing the Mechanical Properties of Natural Fiber Composite Using Convolutional Neural Network. Advances in Materials Science and Engineering, 2021, 2021, 1-15.	1.8	25
35	A facile synthesis of Ag/ZnO nanocomposites prepared via novel green mediated route for catalytic activity. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	11
36	Preface: International Conference on Recent Advancements in Biomedical Engineering - 2021. Journal of Physics: Conference Series, 2021, 2027, 011001.	0.4	0

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37	Investigation on Heat Transfer Enhancement in Microchannel Using Al ₂ O ₃ /Water Nanofluids. International Journal of Photoenergy, 2021, 2021, 1-9.	2.5	8
38	Tensile and flexural properties of natural fibre matrix composites developed through hand-lay method. Materials Today: Proceedings, 2021, 47, 400-404.	1.8	0
39	The roles and applications of additive manufacturing in the aerospace and automobile sector. Materials Today: Proceedings, 2021, 47, 405-409.	1.8	73
40	Investigation of Mechanical and Durability Properties of Concrete Mixed with Water Exposed to a Magnetic Field. Advances in Civil Engineering, 2021, 2021, 1-14.	0.7	6
41	Influence of Fiber Volume and Fiber Length on Thermal and Flexural Properties of a Hybrid Natural Polymer Composite Prepared with Banana Stem, Pineapple Leaf, and S-Glass. Advances in Materials Science and Engineering, 2021, 2021, 1-11.	1.8	56
42	Influence of Flax Fibre Hybridization on Mechanical Behaviour of Sisal Fibre-Polypropylene Composites Prepared with an Injection Moulding Machine. Advances in Materials Science and Engineering, 2021, 2021, 1-7.	1.8	2
43	Tribological Behavior and Analysis on Surface Roughness of CNC Milled Dual Heat Treated Al6061 Composites. Advances in Materials Science and Engineering, 2021, 2021, 1-14.	1.8	10
44	Flexural Behaviour of RC Beams with a Circular Opening at the Flexural Zone and Shear Zone Strengthened Using Steel Plates. Advances in Civil Engineering, 2021, 2021, 1-12.	0.7	4
45	Hourly and Day Ahead Power Prediction of Building Integrated Semitransparent Photovoltaic System. International Journal of Photoenergy, 2021, 2021, 1-8.	2.5	12
46	3D Printing Manufacturing Techniques, Materials, and Applications: An Overview. Advances in Materials Science and Engineering, 2021, 2021, 1-10.	1.8	22
47	Degradation Analysis of Jute Fiber Reinforced Waste Tile Powder-Filled Polymer Composite on Wear Characteristics. International Journal of Polymer Science, 2021, 2021, 1-13.	2.7	3
48	Investigation of Mechanical Behaviour on Composites of Al6063 Alloy with Silicon, Graphite and Fly Ash. Journal of New Materials for Electrochemical Systems, 2020, 23, 36-39.	0.6	7
49	Experimental Investigation of Tensile Strength of Fiber Reinforced Polyester by Using Chicken Feather Fiber. Journal of New Materials for Electrochemical Systems, 2020, 23, 40-44.	0.6	6
50	Mechanical properties of 7075-t6 aluminium alloy surface hybrid composites synthesised by friction stir processing. International Journal of Rapid Manufacturing, 2019, 8, 52.	0.5	7
51	Performance Analysis of Compression Ignition (CI) Engine Using Bio Fuels. International Journal of Mechanical and Production Engineering Research and Development, 2019, 9, 1371-1378.	0.1	0
52	EMPOWERING STUDENTS TO BECOME EFFECTIVE LEARNERS THROUGH ACTIVITY BASED LEARNING. Humanities and Social Sciences Reviews, 2019, 7, 57-62.	0.2	1
53	The Effects of TiC Reinforcement on Thermal, Electrical and Dry Sliding Wear Behaviour of Aluminium Matrix Nanocomposites. International Journal of Mechanical and Production Engineering Research and Development, 2018, 8, 373-388.	0.1	2
54	Evaluation of elastic constants of A3003 honeycomb core with varying hexagonal cell geometries through finite element approach. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 1689-1700.	2.1	5

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55	Analysis of Physical and Mechanical Properties of A3003 Aluminum Honeycomb Core Sandwich Panels. Applied Mechanics and Materials, 0, 867, 245-253.	0.2	11
56	Investigation on Microstructure and Mechanical Properties of Corrosion Resistance Alloy C-2000 Fabricated by Conventional Arc Welding Technique. , 0, , .		3