Dipen Kumar Rajak

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dynamic instability of nanocomposite <scp>piezoelectricâ€</scp> leptadenia pyrotechnica rheological elastomerâ€porous functionally graded materials micro viscoelastic beams at various strain gradient higherâ€order theories. Polymer Composites, 2022, 43, 282-298.	4.6	27
2	Experimental Analysis and Mechanical Characterization of AISI P20 Tool Steel Through Heat-Treatment Process. Journal of Bio- and Tribo-Corrosion, 2022, 8, 1.	2.6	5
3	Performance Analysis of Three Side Roughened Solar Air Heater: A Preliminary Investigation. Materials, 2022, 15, 2541.	2.9	3
4	Role of Composite Materials in Automotive Sector: Potential Applications. Energy, Environment, and Sustainability, 2022, , 193-217.	1.0	5
5	Adhesion strength investigation of plasma sprayed NiTi coating. Engineering Failure Analysis, 2022, 140, 106368.	4.0	8
6	Combination of FEM-DQM for nonlinear mechanics of porous GPL-reinforced sandwich nanoplates based on various theories. Thin-Walled Structures, 2022, 178, 109495.	5.3	36
7	A Review on Synthetic Fibers for Polymer Matrix Composites: Performance, Failure Modes and Applications. Materials, 2022, 15, 4790.	2.9	40
8	Influence of LPRE on the sizeâ€dependent phase velocity of sandwich beam including FG porous and smart nanocomposite layers. Polymer Composites, 2022, 43, 7390-7402.	4.6	4
9	The economic viability of a thermal power plant: a case study. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2625-2631.	3.6	6
10	Internally stiffened foam-filled carbon fiber reinforced composite tubes under impact loading for energy absorption applications. Composite Structures, 2021, 255, 112910.	5.8	48
11	Towards better performances for a novel rooftop solar PV system. Solar Energy, 2021, 216, 518-529.	6.1	48
12	Performance of heat transfer mechanism in nucleate pool boiling -a relative approach of contribution to various heat transfer components. Case Studies in Thermal Engineering, 2021, 24, 100827.	5.7	9
13	3D Printing Technology for Biomedical Practice: A Review. Journal of Materials Engineering and Performance, 2021, 30, 5342-5355.	2.5	26
14	Diamond-Like Carbon (DLC) Coatings: Classification, Properties, and Applications. Applied Sciences (Switzerland), 2021, 11, 4445.	2.5	71
15	Influences of fiber reinforced polymer layer on the dynamic deflection of concrete pipes containing nanoparticle subjected to earthquake load. Polymer Composites, 2021, 42, 4073-4081.	4.6	34
16	Atmospheric Plasma Spray Coating of NiTi on Mild Steel Substrate: An Microstructural Investigation. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	2.6	10
17	Water-Based Lubricants: Development, Properties, and Performances. Lubricants, 2021, 9, 73.	2.9	58
18	Crushing response of Composite Metallic Foams: Density and High Strain Rate effects. Journal of Alloys and Compounds, 2021, 871, 159614.	5.5	8

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19	Crashworthiness performance of lightweight Composite Metallic Foams at high temperatures. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106516.	7.6	18
20	Evaluation of tensile strength and elastic modulus of 7075-T6 aluminum alloy by adding SiC reinforcing particles using vortex casting method. Journal of Alloys and Compounds, 2021, 886, 161261.	5.5	31
21	Manufacturing Technologies of Carbon/Glass Fiber-Reinforced Polymer Composites and Their Properties: A Review. Polymers, 2021, 13, 3721.	4.5	92
22	Critical Overview of Coatings Technology for Metal Matrix Composites. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	2.6	18
23	Manufacturing and Mechanical Characterization of Fly-Ash-Reinforced Materials for Furnace Lining Applications. Journal of Materials Engineering and Performance, 2020, 29, 6307-6321.	2.5	3
24	An Insight Into Metal Based Foams. Advanced Structured Materials, 2020, , .	0.5	13
25	Current global scenario of Sputter deposited NiTi smart systems. Journal of Materials Research and Technology, 2020, 9, 14582-14598.	5.8	21
26	Analysis of Crack Behaviour in Pipeline System Using FAD Diagram Based on Numerical Simulation under XFEM. Applied Sciences (Switzerland), 2020, 10, 6129.	2.5	13
27	Friction-based welding processes: friction welding and friction stir welding. Journal of Adhesion Science and Technology, 2020, 34, 2613-2637.	2.6	78
28	Fabrication and Experimental Investigation on Deformation Behaviour of AlSi10Mg Foam-Filled Mild Steel Tubes. Transactions of the Indian Institute of Metals, 2020, 73, 587-594.	1.5	8
29	Influence of Firing Temperature on the Physical, Thermal and Microstructural Properties of Kankara Kaolin Clay: A Preliminary Investigation. Materials, 2020, 13, 1872.	2.9	15
30	Energy Absorption Behavior of Al-SiC-Graphene Composite Foam under a High Strain Rate. Materials, 2020, 13, 783.	2.9	11
31	Yielding, Fatigue, and Creep Response of Metal Foams. Advanced Structured Materials, 2020, , 81-98.	0.5	Ο
32	Traditional and Non-Traditional Optimization Techniques to Enhance Reliability in Process Industries. Advances in Computational Intelligence and Robotics Book Series, 2020, , 67-80.	0.4	2
33	Materials Selection and Design Considerations. Advanced Structured Materials, 2020, , 53-80.	0.5	Ο
34	Recent progress of reinforcement materials: a comprehensive overview of composite materials. Journal of Materials Research and Technology, 2019, 8, 6354-6374.	5.8	449
35	Fiber-Reinforced Polymer Composites: Manufacturing, Properties, and Applications. Polymers, 2019, 11, 1667.	4.5	776
36	Experimental investigation on chromium-diamond like carbon (Cr-DLC) coating through plasma enhanced chemical vapour deposition (PECVD) on the nozzle needle surface. Diamond and Related Materials, 2019, 100, 107588.	3.9	21

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37	Crashworthiness performance and microstructural characteristics of foam-filled thin-walled tubes under diverse strain rate. Journal of Alloys and Compounds, 2019, 775, 675-689.	5.5	59
38	Fabrication and investigation of influence of CaCO ₃ as foaming agent on Al-SiCp foam. Materials and Manufacturing Processes, 2019, 34, 379-384.	4.7	22
39	Investigation of Mild Steel Thin-Wall Tubes in Unfilled and Foam-Filled Triangle, Square, and Hexagonal Cross Sections Under Compression Load. Journal of Materials Engineering and Performance, 2018, 27, 1936-1944.	2.5	6
40	Experimental fabrication and compression analysis characterization of LM30 Al alloy foam with 5wt% SiCp at room temperature. Materials Research Express, 2018, 5, 066526.	1.6	7
41	Evaluation of mild steel hollow and foam filled circular tubes under axial loading. Advanced Materials Letters, 2018, 9, 660-664.	0.6	2
42	On the influence of porosity and pore size on AlSi17 alloy foam using artificial neural network. Ciência & Tecnologia Dos Materiais, 2017, 29, 14-21.	0.5	5
43	Experimental studies on the quasi-static movements of tube sections filled with pumice stone. Materials Today: Proceedings, 2017, 4, 10560-10564.	1.8	Ο
44	An Investigation on Axial Deformation Behavior of Thin-Wall Unfilled and Filled Tube with Aluminum Alloy (Al-Si7Mg) Foam Reinforced with SiC Particles. Journal of Materials Engineering and Performance, 2016, 25, 3430-3438.	2.5	22
45	Experimental analysis to improve energy absorption properties of rectangular metal section subjected to axial loading. Materials Today: Proceedings, 2016, 3, 2207-2212.	1.8	2
46	Investigation and characterisation of aluminium alloy foams with TiH ₂ as a foaming agent. Materials Science and Technology, 2016, 32, 1338-1345.	1.6	24
47	Characterization and analysis of compression load behaviour of aluminium alloy foam under the diverse strain rate. Journal of Alloys and Compounds, 2016, 656, 218-225.	5.5	47
48	An improved estimation of shear rate for yield stress fluids using rotating concentric cylinder Fann viscometer. Journal of Petroleum Science and Engineering, 2015, 125, 247-255.	4.2	14
49	Energy Absorption Capabilities Of Aluminium Foam-filled Square. Advanced Materials Letters, 2015, 6, 80-85.	0.6	12
50	ÂEnergy Absorption Capacity Of Empty And Foam Filled Mild Steel Tube Under Low Strain Rate At RoomAtemperature. Advanced Materials Letters, 2015, 6, 548-553.	0.6	10
51	An Energy Absorption Behaviour of Foam Filled Structures. , 2014, 5, 164-172.		30
52	An improved estimation of shear rate using rotating coaxial-cylinder Fann viscometer: A rheological study of bentonite and fly ash suspensions. International Journal of Mineral Processing, 2014, 126, 18-29.	2.6	14
53	Mechanical Behaviour and Energy Absorption Foam Filled Structures of Square Section under Compression Loading. Applied Mechanics and Materials, 0, 592-594, 1109-1113.	0.2	10
54	A study on CO2 absorption using hybrid solvents in packed columns. International Journal of Low-Carbon Technologies, 0, , .	2.6	4