

Rajesh Purohit

List of Publications by Year in descending order

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126
papers

2,142
citations

318942

23
h-index

340414

39
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126
all docs

126
docs citations

126
times ranked

2342
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical analysis of aluminium alloy cylindrical cup using novel deep drawing technique. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 1831-1844.	0.8	1
2	Finite element analysis of AM30 magnesium alloy sheet in the laser bending process. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 1803-1815.	0.8	8
3	Effect of Graphene Nano Platelets on Mechanical and Physical Properties of Carbon Fibre/Epoxy Hybrid Composites. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 1168-1181.	0.8	11
4	The effect of inter critical heat treatment on mechanical and wear properties of AISI 1015 steel. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 434-444.	0.8	2
5	Tribological Analysis and Characterization of Zinc Rich Al/Si ₃ N ₄ Composites Fabricated Via Ultrasonic Assisted Stir Casting Technique. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 941-953.	0.8	1
6	Physical and mechanical properties of hybrid composites using Kevlar fibre and nano-SiO ₂ . <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 2057-2069.	0.8	3
7	Synthesis and mechanical characterization of epoxy hybrid composites containing graphene nanoplatelets. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 7984-7998.	1.1	9
8	Buckling analysis of composite laminated plate in different boundary conditions under thermo mechanical loading. <i>Materials Today: Proceedings</i> , 2021, 44, 2211-2214.	0.9	4
9	Study of the effect of urea concentration on optical properties of Boron Carbon Oxynitride (BCNO) nanophosphor. <i>Optik</i> , 2021, 232, 166522.	1.4	2
10	Effect of Kevlar Fiber and Nano SiO ₂ on Mechanical Andthermal Properties of Hybrid Composites. <i>Oriental Journal of Chemistry</i> , 2021, 37, 531-540.	0.1	3
11	Development, Testing and Characterization of Al NanoTiCp Composites through Powder Metallurgy Techniques. <i>Journal of Composites Science</i> , 2021, 5, 224.	1.4	2
12	Effect of SiC reinforcement on the mechanical properties of Kevlar fiber based hybrid epoxy composites. <i>Materials Today: Proceedings</i> , 2021, 44, 2478-2481.	0.9	7
13	Magnetic abrasive finishing of non-magnetic materials (Al 6061) using flexible magnetic brush. <i>Materials Today: Proceedings</i> , 2021, 44, 2205-2210.	0.9	0
14	Influence of moisture on microwave-induced shape memory thermoplastic polyurethane/graphene nanoplatelets composite. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2021, 46, 1.	0.8	3
15	An Experimental and Numerical Investigation on the Mechanical Properties of Addition of Wood Flour Fillers in Red Banana Peduncle Fiber Reinforced Polyester Composites. <i>Journal of Natural Fibers</i> , 2020, 17, 1140-1158.	1.7	19
16	Effect of the diameter of MWCNTs on shape memory and mechanical properties of polyurethane composites. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	5
17	Ultrasonic Vibration-Induced Shape Memory Polymer (Polyurethane)/Graphene Nanoplatelets Composite. <i>Journal of the Institution of Engineers (India): Series D</i> , 2020, 101, 141-149.	0.6	3
18	Effect of nano SiO ₂ on properties of natural fiber reinforced epoxy hybrid composite: A review. <i>Materials Today: Proceedings</i> , 2020, 26, 3183-3186.	0.9	35

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19	Tribological and mechanical behavior of alumina particles reinforced LM24 alloy. Materials Today: Proceedings, 2020, 26, 3167-3172.	0.9	1
20	Study of nano-fillers embedded in polymer matrix composites to enhance its properties – A review. Materials Today: Proceedings, 2020, 26, 3024-3029.	0.9	9
21	Nanolithography and its alternate techniques. Materials Today: Proceedings, 2020, 26, 3048-3053.	0.9	5
22	Enhancement of the properties of shape memory polymers using different nano size reinforcement – A review. Materials Today: Proceedings, 2020, 26, 3037-3042.	0.9	11
23	Natural fibre reinforced composite materials: Environmentally better life cycle assessment – A case study. Materials Today: Proceedings, 2020, 26, 3157-3160.	0.9	40
24	Nanolithography and its current advancements. Materials Today: Proceedings, 2020, 26, 2351-2356.	0.9	20
25	Experimental inspection of aluminium matrix composites reinforced with SiC particles fabricated through ultrasonic assisted stir casting process. Materials Today: Proceedings, 2020, 26, 3054-3057.	0.9	13
26	Design and development of epoxy hybrid composite gears for low-powered application. Advances in Materials and Processing Technologies, 2020, 6, 328-337.	0.8	6
27	Effect of stirrer design on microstructure of MWCNT and Al alloy by stir casting process. Advances in Materials and Processing Technologies, 2020, 6, 320-327.	0.8	10
28	Wear performance of titanium reinforced biocompatible TPU. Advances in Materials and Processing Technologies, 2020, 6, 284-291.	0.8	4
29	Forming behaviour of aluminium matrix nano Al ₂ O ₃ composites for automotive applications. Advances in Materials and Processing Technologies, 2020, 6, 272-283.	0.8	14
30	Synthesis & analysis of mechanical and tribological behaviour of silicon carbide and graphite reinforced aluminium alloy hybrid composites. Materials Today: Proceedings, 2020, 26, 3152-3156.	0.9	12
31	Optical properties of BCNO nano phosphor synthesized using novel green technology. Materials Research Express, 2019, 6, 105027.	0.8	3
32	Improved shape memory and mechanical properties of microwave-induced shape memory polymer/MWCNTs composites. Materials Today Communications, 2019, 20, 100579.	0.9	24
33	Optimization of Wear and Friction Parameters of (LM24/B4C) Composite Using Taguchi Technique. Materials Today: Proceedings, 2019, 18, 3702-3710.	0.9	3
34	Development and Testing of Polyurethane based Composites using Rapid Prototyping Techniques for Biomedical Applications-A Review. Materials Today: Proceedings, 2019, 18, 5410-5415.	0.9	1
35	Study of Friction and Wear Behaviour of Epoxy/Nano SiO ₂ based Polymer Matrix Composites- A Review. Materials Today: Proceedings, 2019, 18, 5530-5539.	0.9	18
36	Development of Epoxy/Nano SiC composites and their Mechanical Studies. Materials Today: Proceedings, 2019, 18, 4384-4391.	0.9	6

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37	Optical studies of MWCNT doped boron carbon oxynitride (BCNO) nano composite phosphor material. <i>Optik</i> , 2019, 176, 617-625.	1.4	7
38	Improved shape memory and mechanical properties of microwave-induced thermoplastic polyurethane/graphene nanoplatelets composites. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 17-24.	2.0	30
39	Influence of Moisture on Shape Memory and Mechanical Properties of Microwave-induced Shape Memory Polyurethane (PU)/graphene Nanoplatelets (GNPs) Composite. <i>Journal of Polymer Materials</i> , 2019, 35, 449-462.	0.1	2
40	Development and analysis of high density poly ethylene (HDPE) nano SiO ₂ and wood powder reinforced polymer matrix hybrid nano composites. <i>Journal of Experimental Nanoscience</i> , 2018, 13, S24-S30.	1.3	20
41	Synthesis of high surface area mesoporous silica materials using soft templating approach. <i>Materials Today: Proceedings</i> , 2018, 5, 4128-4133.	0.9	14
42	Material delivery problems in construction projects: A possible solution. <i>Materials Today: Proceedings</i> , 2018, 5, 6497-6501.	0.9	5
43	Fabrication of magnesium matrix composites using powder metallurgy process and testing of properties. <i>Materials Today: Proceedings</i> , 2018, 5, 6009-6017.	0.9	30
44	Synthesis & Analysis Of Mechanical Properties Of LM24/B4C Particulate Composites. <i>Materials Today: Proceedings</i> , 2018, 5, 6038-6044.	0.9	1
45	Characterization and Evaluation of Mechanical Behavior of Epoxy-CNT-Bamboo Matrix Hybrid Composites. <i>Materials Today: Proceedings</i> , 2018, 5, 3971-3980.	0.9	47
46	A Review On Facility Layout Design Of An Automated Guided Vehicle In Flexible Manufacturing System. <i>Materials Today: Proceedings</i> , 2018, 5, 3981-3986.	0.9	12
47	A Study on Simulation Methods for AGV Fleet Size Estimation in a Flexible Manufacturing System. <i>Materials Today: Proceedings</i> , 2018, 5, 3994-3999.	0.9	9
48	Prospects of Torsen Differential in Four Wheel Drive Automobile Transmission System. <i>Materials Today: Proceedings</i> , 2018, 5, 4036-4045.	0.9	12
49	Study of Fabrication, Testing and Characterization of Al/TiC Metal Matrix Composites through different Processing Techniques. <i>Materials Today: Proceedings</i> , 2018, 5, 4106-4117.	0.9	30
50	Exploration of the Hydroforming Process for Manufacturing of Domestic Component by FEA Application. <i>Materials Today: Proceedings</i> , 2018, 5, 4201-4210.	0.9	1
51	A Multi Echelon Mixed Integer Linear Programming Model of a Close Loop Supply Chain Network Design. <i>Materials Today: Proceedings</i> , 2018, 5, 4838-4846.	0.9	7
52	Stress Intensity Factor (SIF) analysis on the Pressurized Base Weld Component (PBWC) Materials a Review. <i>Materials Today: Proceedings</i> , 2018, 5, 5430-5437.	0.9	0
53	Dispersion of SiO ₂ Nano Particles on Epoxy Based Polymer Nano Composites and its Characterization. <i>Oriental Journal of Chemistry</i> , 2018, 34, 2998-3003.	0.1	13
54	Density Variation due to Polylactic Acid of Long Bamboo Fibres. <i>Materials Today: Proceedings</i> , 2018, 5, 20292-20296.	0.9	3

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55	An Overview on the Forging Behaviour of Aluminum Matrix Nano Composites. Materials Today: Proceedings, 2018, 5, 20124-20129.	0.9	5
56	Stress Analysis of A Bicycle Frame. Materials Today: Proceedings, 2018, 5, 18920-18926.	0.9	5
57	Application of Functionally Graded Nano Material (FGNM) Laminates for Solenoid based Actuators. Materials Today: Proceedings, 2018, 5, 20736-20740.	0.9	4
58	Effects of process parameters on the Surface Finish of Flat Surfaces in Magnetic assist Abrasive Finishing Process. Materials Today: Proceedings, 2018, 5, 17725-17729.	0.9	7
59	Future Prospects of shape memory polymer nano-composite and epoxy based shape memory polymer- A review. Materials Today: Proceedings, 2018, 5, 20193-20200.	0.9	25
60	IoT based Smart Tea leaves Plucker with Two Revolute type Planar Manipulator. , 2018, , .		4
61	Study of tribological properties of Al-Al ₂ O ₃ nanocomposites developed through ultrasonic assisted stir casting process. Materials Today: Proceedings, 2018, 5, 20492-20499.	0.9	6
62	Characterization & evaluation of Al7075 MMCs reinforced with ceramic particulates and influence of age hardening on their tensile behavior. Journal of Mechanical Science and Technology, 2018, 32, 3123-3128.	0.7	71
63	Effect Of Deep Cryogenic Treatment On Composite Material For Automotive Ac System. Materials Today: Proceedings, 2017, 4, 3501-3505.	0.9	8
64	Development of Cu-Al ₂ O ₃ -CBN Hybrid Composite through Powder Metallurgy Process and Analysis of Mechanical Properties. Materials Today: Proceedings, 2017, 4, 3270-3279.	0.9	7
65	Investigation of Mechanical Properties of Multi-Layered Functionally Graded (FG) Sandwich Structure developed by Compressive Moulding Route. Materials Today: Proceedings, 2017, 4, 3601-3607.	0.9	1
66	Investigation and Testing of Mechanical Properties of Al-Nano SiC Composites through Cold Isostatic Compaction Process. Materials Today: Proceedings, 2017, 4, 2723-2732.	0.9	21
67	Investigation of Midrib of Cocos nucifera Leaves for Reinforcement of Polyester. Materials Today: Proceedings, 2017, 4, 3346-3355.	0.9	1
68	Advanced Application of Polymer based Biomaterials. Materials Today: Proceedings, 2017, 4, 3534-3541.	0.9	49
69	An overview of Polymeric Materials for Automotive Applications. Materials Today: Proceedings, 2017, 4, 3807-3815.	0.9	133
70	Investigation of the effects of the Machining Parameters on Material Removal Rate using Taguchi method in End Milling of Steel Grade EN19. Materials Today: Proceedings, 2017, 4, 336-341.	0.9	21
71	Vibration Analysis & Condition Monitoring for Rotating Machines: A Review. Materials Today: Proceedings, 2017, 4, 2659-2664.	0.9	55
72	Synthesis Methods of Mesoporous Silica Materials. Materials Today: Proceedings, 2017, 4, 350-357.	0.9	79

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73	Optimization of Process Parameters of Shot Peening Using ABQUS. Materials Today: Proceedings, 2017, 4, 2119-2128.	0.9	7
74	Selection of tool and work piece combination using Multiple Attribute Decision Making Methods for Computer Numerical Control turning operation. Materials Today: Proceedings, 2017, 4, 1199-1208.	0.9	6
75	Development and Analysis of Epoxy/nano SiO ₂ Polymer Matrix Composite fabricated by Ultrasonic Vibration assisted Processing. Materials Today: Proceedings, 2017, 4, 2748-2754.	0.9	21
76	Analysis of Machining Behavior of Al/A206-Al ₂ O ₃ Metal Matrix Composite Using End Milling Process. Materials Today: Proceedings, 2017, 4, 2687-2692.	0.9	8
77	Analysis of Mechanical Properties of Fiber Glass-Epoxy-Fly Ash Composites. Materials Today: Proceedings, 2017, 4, 3102-3109.	0.9	17
78	Mechanical Properties of Bamboo Laminates with other composites. Materials Today: Proceedings, 2017, 4, 3380-3386.	0.9	17
79	Mechanical Properties of Coir/ Glass Fiber Epoxy Resin Hybrid Composite. Materials Today: Proceedings, 2017, 4, 3477-3483.	0.9	30
80	Effect of Ultrasonic Stirring on Changes in Microstructure and Mechanical Properties of Cast In-situ Al 5083 alloy Composites Containing 5wt.% and 10wt.% TiC particles. Materials Today: Proceedings, 2017, 4, 3494-3500.	0.9	15
81	Optimization of Mechanical Properties of AA 5083 Nano SiC Composites using Design of Experiment Technique. Materials Today: Proceedings, 2017, 4, 3882-3890.	0.9	7
82	The Effect of Hot Forging and Heat Treatment on Wear Properties of Al6061-Al ₂ O ₃ Nano Composites. Materials Today: Proceedings, 2017, 4, 4042-4048.	0.9	13
83	Simulation of shot peening process. Materials Today: Proceedings, 2017, 4, 1244-1251.	0.9	13
84	Review on modelling and optimization of electrical discharge machining process using modern Techniques. Materials Today: Proceedings, 2017, 4, 2048-2057.	0.9	27
85	A Review on mechanical property of sisal glass fiber reinforced polymer composites. Materials Today: Proceedings, 2017, 4, 3466-3476.	0.9	65
86	Effect of variation of low cost reinforcement on natural frequency Of polyester resin glass fibre hybrid composites. Materials Today: Proceedings, 2017, 4, 3451-3457.	0.9	1
87	Investigation of Damage in Small Deformation in Hot Rolling Process Using FEM. Materials Today: Proceedings, 2017, 4, 2360-2372.	0.9	9
88	Noise and Vibration Emissions of Railway Bridges. Materials Today: Proceedings, 2017, 4, 3745-3753.	0.9	3
89	Mechanical Behaviour Of Friction Stir Welding On Aluminium Based Composite Material. Materials Today: Proceedings, 2017, 4, 5336-5343.	0.9	3
90	Failure Analysis of the Axle Shaft of an Automobile. Materials Today: Proceedings, 2017, 4, 5398-5407.	0.9	6

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91	Applications of TOPSIS Algorithm on various Manufacturing Processes: A Review. Materials Today: Proceedings, 2017, 4, 5320-5329.	0.9	60
92	Development of Ni-Ti Shape Memory Alloys through Novel Powder Metallurgy Route and Effect of Rolling on their properties. Materials Today: Proceedings, 2017, 4, 5330-5335.	0.9	4
93	Effect of Forging on Aluminum Matrix Nano Composites: A Review. Materials Today: Proceedings, 2017, 4, 5357-5360.	0.9	12
94	Investigations On Mechanical Properties Of Glass And Sugarcane Fiber Polymer Matrix Composites. Materials Today: Proceedings, 2017, 4, 5408-5420.	0.9	19
95	A study on sheet metal hole-flanging process. Materials Today: Proceedings, 2017, 4, 5421-5428.	0.9	11
96	Characterization of Properties of epoxy sisal / Glass Fiber Reinforced hybrid composite. Materials Today: Proceedings, 2017, 4, 5445-5451.	0.9	36
97	Life Prediction and Stress Intensity Factor (SIF) analysis for the base straight component and weld straight component (Pipes) used in the nuclear power plant. Materials Today: Proceedings, 2017, 4, 5429-5434.	0.9	1
98	Automation in Biogas Plant for Enhancement of Efficiency and Safety. Materials Today: Proceedings, 2017, 4, 5351-5356.	0.9	2
99	Modeling and Aerodynamic Analysis of Small Scale, Mixed Airfoil Horizontal Axis Wind Turbine Blade. Materials Today: Proceedings, 2017, 4, 5370-5384.	0.9	11
100	Effect Of Rolling On Ni-Ti-Fe Shape Memory Alloys Prepared Through Novel Powder Metallurgy Route. Materials Today: Proceedings, 2017, 4, 5385-5397.	0.9	6
101	Properties Analysis of waste activated carbon water filter cartridge particulate reinforced metal matrix composite. Materials Today: Proceedings, 2017, 4, 5435-5444.	0.9	0
102	Effect of TiC particles on the mechanical properties of aluminium alloy metal matrix composites (MMCs). Materials Today: Proceedings, 2017, 4, 5452-5460.	0.9	48
103	Social, Environmental and Ethical Impacts of Nanotechnology. Materials Today: Proceedings, 2017, 4, 5461-5467.	0.9	45
104	An Investigation on Manufacturing of Self-healing Materials. Materials Today: Proceedings, 2015, 2, 3371-3377.	0.9	10
105	Analysis of Manipulator Application, Graphics, Intelligent Kinematics & Actuators in Action (AMAGIKAA). Materials Today: Proceedings, 2015, 2, 2205-2214.	0.9	0
106	Optimization of Electric Discharge Machining of M2 Tool Steel Using Grey Relational Analysis. Materials Today: Proceedings, 2015, 2, 3378-3387.	0.9	21
107	Modern Trends in Rapid Prototyping for Biomedical Applications. Materials Today: Proceedings, 2015, 2, 3409-3418.	0.9	12
108	Development and Wear Analysis of Al- Nano SiC Composite Automotive Cam. Materials Today: Proceedings, 2015, 2, 3586-3592.	0.9	11

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109	Characterization of Mechanical Properties and Microstructure of Aluminium Alloy-SiC Composites. Materials Today: Proceedings, 2015, 2, 1149-1156.	0.9	59
110	Development and Analysis of Al-Matrix Nano Composites Fabricated by Ultrasonic Assisted Squeeze Casting Process. Materials Today: Proceedings, 2015, 2, 3697-3703.	0.9	29
111	Wear Behavior and Micro-structural Study of Al/Al ₂ O ₃ Nano-composites Before and After Heat Treatment. Materials Today: Proceedings, 2015, 2, 1892-1900.	0.9	9
112	Influence of Ultrasonic Assisted Stir Casting on Mechanical Properties of Al6061-nano Al ₂ O ₃ Composites. Materials Today: Proceedings, 2015, 2, 3017-3026.	0.9	31
113	Development of Al-Nano Composites through Powder Metallurgy Process Using a Newly Designed Cold Isostatic Compaction Chamber. Materials Today: Proceedings, 2015, 2, 2737-2746.	0.9	5
114	Advanced Aluminium Matrix Composites: The Critical Need of Automotive and Aerospace Engineering Fields. Materials Today: Proceedings, 2015, 2, 3032-3041.	0.9	178
115	Properties and Applications of Polymer Matrix Nano Composite Materials. Materials Today: Proceedings, 2015, 2, 3704-3711.	0.9	18
116	Design and Finite Element Analysis of an Automotive Clutch Assembly. , 2014, 6, 490-502.		15
117	Fabrication and testing of Al-SiCp composite poppet valve guides. International Journal of Advanced Manufacturing Technology, 2010, 51, 685-698.	1.5	16
118	Fabrication and impact wear testing of Al-SiCp composite valve seat inserts for automobiles. International Journal of Vehicle Systems Modelling and Testing, 2009, 4, 102.	0.1	0
119	Synthesis and analysis of aligned multi-walled carbon nanotubes by chemical vapour deposition. International Journal of Nanoparticles, 2008, 1, 283.	0.1	1
120	Mathematical modeling of electric discharge machining of cast Al-Cu-Si alloy 10wt.% SiCP composites. Journal of Materials Processing Technology, 2007, 194, 24-29.	3.1	138
121	Finite-Element Analysis of Al-SiCp Composite Poppet Valve Guides. , 2005, , .		1
122	Tribological behaviour of biocompatible TPU composites with reinforced titanium. Advances in Materials and Processing Technologies, 0, , 1-12.	0.8	1
123	Effect of Nano SiO ₂ on Mechanical and Thermal Properties of Polymer Matrix Nanocomposites. Advances in Materials and Processing Technologies, 0, , 1-17.	0.8	0
124	Modeling and FEM simulation of a pressurized and rotated functionally graded thick walled cylinder. Advances in Materials and Processing Technologies, 0, , 1-18.	0.8	0
125	Analysis of Friction Factor in Cold Forging by using Ring with Triangular Boss Compression Test. Advances in Materials and Processing Technologies, 0, , 1-19.	0.8	0
126	Investigation of wear and friction characteristic of Al/(Si ₃ N ₄) _n nano composites under as-cast and heat-treated conditions. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892211120.	1.4	1