

Sumit Bhowmik

List of Publications by Year in descending order

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82
papers

1,249
citations

430442

18
h-index

500791

28
g-index

86
all docs

86
docs citations

86
times ranked

876
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal green energy planning for sustainable development: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 71, 796-813.	8.2	129
2	Prediction and optimization of process parameters of green composites in AWJM process using response surface methodology. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 1359-1370.	1.5	78
3	Study of Mechanical Properties of Wood Dust Reinforced Epoxy Composite. , 2014, 6, 551-556.		77
4	Optimization of Mechanical Properties of Epoxy based Wood Dust Reinforced Green Composite Using Taguchi Method. , 2014, 5, 688-696.		51
5	Investigation of Mechanical and Viscoelastic Properties of Flax- and Ramie-Reinforced Green Composites for Orthopedic Implants. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3161-3171.	1.2	51
6	A material selection approach using the TODIM (TOMada de Decisao Interativa Multicriterio) method and its analysis. <i>International Journal of Materials Research</i> , 2017, 108, 345-354.	0.1	44
7	Prediction of surface roughness quality of green abrasive water jet machining: a soft computing approach. <i>Journal of Intelligent Manufacturing</i> , 2019, 30, 2965-2979.	4.4	44
8	Mechanical characterization and quantification of tensile, fracture and viscoelastic characteristics of wood filler reinforced epoxy composite. <i>Wood Science and Technology</i> , 2018, 52, 677-699.	1.4	39
9	Social acceptance of green energy determinants using principal component analysis. <i>Energy</i> , 2018, 160, 1030-1046.	4.5	34
10	Interval-valued intuitionistic fuzzy TODIM method based on Schweizerâ€™Sklar power aggregation operators and their applications to group decision making. <i>Soft Computing</i> , 2020, 24, 14091-14133.	2.1	34
11	Assessment and Response of Treated Cocos nucifera Reinforced Toughened Epoxy Composite Towards Fracture and Viscoelastic Properties. <i>Journal of Polymers and the Environment</i> , 2018, 26, 2522-2535.	2.4	30
12	Accelerated weathering effects on mechanical, thermal and viscoelastic properties of kenaf/pineapple biocomposite laminates for load bearing structural applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51465.	1.3	28
13	Mechanical Characterization of Bio-epoxy Green Composites Derived from Sodium Bicarbonate Treated Punica Granatum Short Fiber Agro-waste. <i>Journal of Polymers and the Environment</i> , 2021, 29, 143-155.	2.4	26
14	Complex interval-valued intuitionistic fuzzy TODIM approach and its application to group decision making. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 2079-2102.	3.3	25
15	Tailoring the performance of bamboo filler reinforced epoxy composite: insights into fracture properties and fracture mechanism. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	23
16	Optimal green energy source selection: An eclectic decision. <i>Energy and Environment</i> , 2020, 31, 842-859.	2.7	22
17	Establishment and Effect of Constraint on Different Mechanical Properties of Bamboo Filler Reinforced Epoxy Composite. <i>International Polymer Processing</i> , 2017, 32, 308-315.	0.3	22
18	Effect of Different Constraint on Tribological Behaviour of Natural Fibre/Filler Reinforced Polymeric Composites: a Review. <i>Silicon</i> , 2021, 13, 2785-2807.	1.8	21

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19	Property-enhanced paraffin-based composite phase change material for thermal energy storage: a review. <i>Environmental Science and Pollution Research</i> , 2022, 29, 43556-43587.	2.7	21
20	Estimation of fracture toughness of 20MnMoNi55 steel in the ductile to brittle transition region using master curve method. <i>Nuclear Engineering and Design</i> , 2011, 241, 2831-2838.	0.8	20
21	Thermomechanical behavior of graphene nanoplatelets and bamboo micro filler incorporated epoxy hybrid composites. <i>Materials Research Express</i> , 2020, 7, 015328.	0.8	20
22	Green Energy Sources Selection for Sustainable Planning: A Case Study. <i>IEEE Transactions on Engineering Management</i> , 2022, 69, 1322-1334.	2.4	19
23	Machining parametric study on the natural fiber reinforced composites: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 6232-6249.	1.1	18
24	Extended TODIM method based on normal wiggly hesitant fuzzy sets for deducing optimal reinforcement condition of agro-waste fibers for green product development. <i>Journal of Cleaner Production</i> , 2021, 301, 126947.	4.6	17
25	Evaluation and effect of loss of constraint on master curve reference temperature of 20MnMoNi55 steel. <i>Engineering Fracture Mechanics</i> , 2015, 136, 142-157.	2.0	16
26	Fuzzy-EDAS (Evaluation Based on Distance from Average Solution) for Material Selection Problems. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2019, , 755-771.	0.4	16
27	Application and comparative study of the master curve methodology for fracture toughness characterization of 20MnMoNi55 steel. <i>Materials & Design</i> , 2012, 39, 309-317.	5.1	15
28	Elucidating the Coir Particle Filler Interaction in Epoxy Polymer Composites at Low Strain Rate. <i>Fibers and Polymers</i> , 2019, 20, 428-439.	1.1	14
29	Modeling and Optimization of Advanced Manufacturing Processes. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , .	0.2	13
30	Laser Micromachining of Engineering Materials—A Review. <i>Materials Forming, Machining and Tribology</i> , 2019, , 121-136.	0.7	13
31	A review on allotropes of carbon and natural filler-reinforced thermomechanical properties of upgraded epoxy hybrid composite. <i>Reviews on Advanced Materials Science</i> , 2021, 60, 237-275.	1.4	13
32	Potential use of natural fiber-reinforced polymer biocomposites in knee prostheses: a review on fair inclusion in amputees. <i>Iranian Polymer Journal (English Edition)</i> , 2022, 31, 1297-1319.	1.3	13
33	Abrasive Water Jet Machining of Composite Materials. <i>Materials Forming, Machining and Tribology</i> , 2017, , 77-97.	0.7	12
34	Multi Criteria Decision Making For Selection Of Material Composition For Powder Metallurgy Process. <i>Materials Today: Proceedings</i> , 2018, 5, 4615-4620.	0.9	12
35	The effect of normalization tools on green energy sources selection using multi-criteria decision-making approach: A case study in India. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	0.8	12
36	Synergetic Effect of Micro-bamboo Filler and Graphene Nanoplatelets on Thermomechanical Properties of Epoxy-Based Hybrid Composite. <i>Jom</i> , 2020, 72, 4466-4476.	0.9	12

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37	Development and Assessment of Beeswax/Expanded Graphite Composite Phase Change Material for Thermal Energy Storage. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 8985-9004.	1.7	12
38	Green energy sources selection for sustainable energy planning using multi-criteria decision-making approach. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 377, 012029.	0.3	11
39	Perspective on the mechanical response of pineapple leaf filler/toughened epoxy composites under diverse constraints. <i>Polymer Bulletin</i> , 2020, 77, 4105-4129.	1.7	11
40	Punica Granatum Fibers as Potential Reinforcement of Composite Structures. <i>Fibers and Polymers</i> , 2020, 21, 1535-1549.	1.1	11
41	Tribological Behavior of Micro Coir Filler Reinforced Polymer Composite under Dry, Wet, and Heated Contact Condition. <i>Journal of Natural Fibers</i> , 2022, 19, 2077-2092.	1.7	11
42	Micro-mechanical analysis of the pineapple-reinforced polymeric composite by the inclusion of pineapple leaf particulates. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 1112-1127.	0.7	9
43	Influence of filler hybridization on thermomechanical properties of hemp/silver epoxy composite. <i>Polymers and Polymer Composites</i> , 2021, 29, 1551-1562.	1.0	9
44	Experimental analysis and parametric optimization of drilling process for ferrous clay composite using GRA-PCA approach. <i>Journal of Materials Research and Technology</i> , 2021, 10, 376-389.	2.6	8
45	Decision making tools for optimal material selection: A review. <i>Journal of Central South University</i> , 2020, 27, 629-673.	1.2	7
46	Excogitating Material Rankings Using Novel Aggregation Multiplicative Rule (AMR): A Case for Material Selection Problems. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 5631-5646.	1.7	7
47	A Review on Advancement in Friction Stir Welding Considering the Tool and Material Parameters. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 7681-7697.	1.7	7
48	Analysis of Heat Transfer Rate for Different Annulus Shape Properties-Enhanced Beeswax-Based Phase Change Material for Thermal Energy Storage. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-21.	0.6	7
49	Estimation and comparative study of JIC using different methods for 20MnMoNi55 steel. <i>Materials & Design</i> , 2013, 46, 680-687.	5.1	6
50	Development of fuzzy logic-based decision support system for multi-response parameter optimization of green manufacturing process: a case study. <i>Soft Computing</i> , 2019, 23, 11015-11034.	2.1	6
51	A Decision-Making Approach for Material Selection of Polymeric Composite Bumper Beam. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2018, , 112-128.	0.2	6
52	Selection of optimum green energy sources by considering environmental constructs and their technical criteria: a case study. <i>Environment, Development and Sustainability</i> , 2021, 23, 13890-13918.	2.7	5
53	Analysis on Development of Beeswax as Phase Change Material for Thermal Energy Storage. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 379-388.	0.3	5
54	Estimation of Mechanical and Tribological Properties of Epoxy-Based Green Composites. <i>Advances in Chemical and Materials Engineering Book Series</i> , 0, , 96-124.	0.2	5

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55	Tailoring the thermomechanical behaviour of epoxy with the incorporation of bamboo and graphite filler. <i>Materials Today: Proceedings</i> , 2021, 46, 9084-9088.	0.9	4
56	A novel decision-making tool for performance evaluation of vegetable oils used as heat transfer fluids in concentrated solar power plants. <i>Environment, Development and Sustainability</i> , 2022, 24, 13334-13377.	2.7	4
57	Adhesive wear behaviour of surface modified bamboo filler reinforced polymer composite under different contact condition. <i>Journal of Natural Fibers</i> , 2022, 19, 12208-12223.	1.7	4
58	Optimization of process parameters using fuzzy-grey relational analysis (F-GRA) for green EDM. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	3
59	Effect of load on wear performance of coir particulate reinforced epoxy composite. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
60	Numerical investigation of beeswax based phase change material for thermal management of li-ion battery. <i>Materials Today: Proceedings</i> , 2021, 45, 6527-6532.	0.9	3
61	Investigation of the thermomechanical performance of hybrid polymer composite using micro bamboo powder and graphite flakes. <i>Journal of Applied Polymer Science</i> , 0, , 51806.	1.3	3
62	Selection of material for wind turbine blade using PROMETHEE-GAIA method. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
63	Bamboo fibre reinforced thermoset and thermoplastic polymer composites: A short review. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
64	Quantitative probing of static and dynamic mechanical properties of different bio-filler-reinforced epoxy composite under assorted constraints. <i>Polymer Bulletin</i> , 2021, 78, 1231-1252.	1.7	2
65	A concurrent decision-making approach toward uncertainty, vagueness and risk appetite for sustainable manufacturing systems. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 597-620.	2.1	2
66	The effect of filler treatment on the frictional performance of coir dust reinforced polymeric composite. <i>Materials Today: Proceedings</i> , 2021, 46, 9079-9083.	0.9	2
67	Assessment of Optimal Drilling Parameter for Bamboo Filler Reinforced Epoxy Composite. , 0, , .		2
68	Evaluation of Machinability and Recast Layer Analysis of Ferrous Clay Composite through Electric Discharge Machining Process. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 8523-8533.	1.7	2
69	Fracture Behaviour of 20MnMoNi55 Steel in DBT Region under Corrosive Environment. <i>Procedia Engineering</i> , 2013, 64, 795-804.	1.2	1
70	Analysis of Mechanical Properties of Wood Dust Reinforced Epoxy Composite Using Response Surface Methodology. <i>Advanced Materials Research</i> , 0, 1119, 258-262.	0.3	1
71	8. Influence of drilling parameters on the thrust force and mechanical properties of biodegradable particleboard composite panels: A review. , 2019, , 167-182.		1
72	Manufacturing and Processing of Short Bamboo Fiber-Based Polymer Composite. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021, , 17-37.	0.2	1

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73	An Integrated Fuzzy-Based Methodology for Selection of Casting Pattern Material. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 291-299.	0.5	1
74	Development of Natural Bio-Filler-Based Epoxy Composite for Wind Turbine Blade Application. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2018, , 180-196.	1.0	1
75	Effect of Microstructure Degradation on Fracture Toughness of 20MnMoNi55 Steel in DBT Region. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2016, 6, 11-27.	0.3	1
76	Multi-Criteria Decision Making for Optimization of Product Development Under Green Manufacturing Environment. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2018, , 234-249.	1.0	1
77	Parameters Optimization of FDM for the Quality of Prototypes Using an Integrated MCDM Approach. <i>Advances in Logistics, Operations, and Management Science Book Series</i> , 2019, , 199-220.	0.3	1
78	Recent Developments in Wire Electrical Discharge Machining. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2019, , 125-152.	1.0	1
79	Cutting fluid selection for environmentally conscious design for manufacturing: An integrated theory. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
80	Hybrid Multi-Criteria Decision-Making Optimization Strategy for RP Material Selection. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2019, , 320-334.	0.2	0
81	Optimum Selection of Biodiesel for Sustainable Assessment. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2019, , 94-114.	0.3	0
82	Synthesis and Responsive Study of Tensile and Flexural Properties of Bamboo Filler Based Functionally Graded Composite. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 373-384.	0.3	0