Sumit Bhowmik

List of Publications by Year
in descending order

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82	1,249	430442	500791
papers	citations	18 h-index	28 g-index

86	86	86	876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tribological Behavior of Micro Coir Filler Reinforced Polymer Composite under Dry, Wet, and Heated Contact Condition. Journal of Natural Fibers, 2022, 19, 2077-2092.	1.7	11
2	Green Energy Sources Selection for Sustainable Planning: A Case Study. IEEE Transactions on Engineering Management, 2022, 69, 1322-1334.	2.4	19
3	Accelerated weathering effects on mechanical, thermal and viscoelastic properties of kenaf/pineapple biocomposite laminates for load bearing structural applications. Journal of Applied Polymer Science, 2022, 139, 51465.	1.3	28
4	Evaluation of Machinability and Recast Layer Analysis of Ferrous Clay Composite through Electric Discharge Machining Process. Arabian Journal for Science and Engineering, 2022, 47, 8523-8533.	1.7	2
5	Development and Assessment of Beeswax/Expanded Graphite Composite Phase Change Material for Thermal Energy Storage. Arabian Journal for Science and Engineering, 2022, 47, 8985-9004.	1.7	12
6	A novel decision-making tool for performance evaluation of vegetable oils used as heat transfer fluids in concentrated solar power plants. Environment, Development and Sustainability, 2022, 24, 13334-13377.	2.7	4
7	Analysis of Heat Transfer Rate for Different Annulus Shape Properties-Enhanced Beeswax-Based Phase Change Material for Thermal Energy Storage. Mathematical Problems in Engineering, 2022, 2022, 1-21.	0.6	7
8	Property-enhanced paraffin-based composite phase change material for thermal energy storage: a review. Environmental Science and Pollution Research, 2022, 29, 43556-43587.	2.7	21
9	Adhesive wear behaviour of surface modified bamboo filler reinforced polymer composite under different contact condition. Journal of Natural Fibers, 2022, 19, 12208-12223.	1.7	4
10	Machining parametric study on the natural fiber reinforced composites: A review. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 6232-6249.	1.1	18
11	Potential use of natural fiber-reinforced polymer biocomposites in knee prostheses: a review on fair inclusion in amputees. Iranian Polymer Journal (English Edition), 2022, 31, 1297-1319.	1.3	13
12	Quantitative probing of static and dynamic mechanical properties of different bio-filler-reinforced epoxy composite under assorted constraints. Polymer Bulletin, 2021, 78, 1231-1252.	1.7	2
13	Effect of Different Constraint on Tribological Behaviour of Natural Fibre/Filler Reinforced Polymeric Composites: a Review. Silicon, 2021, 13, 2785-2807.	1.8	21
14	Complex interval-valued intuitionistic fuzzy TODIM approach and its application to group decision making. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 2079-2102.	3.3	25
15	A concurrent decision-making approach toward uncertainty, vagueness and risk appetite for sustainable manufacturing systems. Clean Technologies and Environmental Policy, 2021, 23, 597-620.	2.1	2
16	Mechanical Characterization of Bio-epoxy Green Composites Derived from Sodium Bicarbonate Treated Punica Granatum Short Fiber Agro-waste. Journal of Polymers and the Environment, 2021, 29, 143-155.	2.4	26
17	Numerical investigation of beeswax based phase change material for thermal management of li-ion battery. Materials Today: Proceedings, 2021, 45, 6527-6532.	0.9	3
18	Experimental analysis and parametric optimization of drilling process for ferrous clay composite using GRA-PCA approach. Journal of Materials Research and Technology, 2021, 10, 376-389.	2.6	8

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19	Manufacturing and Processing of Short Bamboo Fiber-Based Polymer Composite. SpringerBriefs in Applied Sciences and Technology, 2021, , 17-37.	0.2	1
20	The effect of filler treatment on the frictional performance of coir dust reinforced polymeric composite. Materials Today: Proceedings, 2021, 46, 9079-9083.	0.9	2
21	A review on allotropes of carbon and natural filler-reinforced thermomechanical properties of upgraded epoxy hybrid composite. Reviews on Advanced Materials Science, 2021, 60, 237-275.	1.4	13
22	Micro-mechanical analysis of the pineapple-reinforced polymeric composite by the inclusion of pineapple leaf particulates. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 1112-1127.	0.7	9
23	Selection of optimum green energy sources by considering environmental constructs and their technical criteria: a case study. Environment, Development and Sustainability, 2021, 23, 13890-13918.	2.7	5
24	A Review on Advancement in Friction Stir Welding Considering the Tool and Material Parameters. Arabian Journal for Science and Engineering, 2021, 46, 7681-7697.	1.7	7
25	Extended TODIM method based on normal wiggly hesitant fuzzy sets for deducing optimal reinforcement condition of agro-waste fibers for green product development. Journal of Cleaner Production, 2021, 301, 126947.	4.6	17
26	Tailoring the thermomechanical behaviour of epoxy with the incorporation of bamboo and graphite filler. Materials Today: Proceedings, 2021, 46, 9084-9088.	0.9	4
27	Analysis on Development of Beeswax as Phase Change Material for Thermal Energy Storage. Lecture Notes in Mechanical Engineering, 2021, , 379-388.	0.3	5
28	Influence of filler hybridization on thermomechanical properties of hemp/silver epoxy composite. Polymers and Polymer Composites, 2021, 29, 1551-1562.	1.0	9
29	Perspective on the mechanical response of pineapple leaf filler/toughened epoxy composites under diverse constraints. Polymer Bulletin, 2020, 77, 4105-4129.	1.7	11
30	Optimal green energy source selection: An eclectic decision. Energy and Environment, 2020, 31, 842-859.	2.7	22
31	Thermomechanical behavior of graphene nanoplatelets and bamboo micro filler incorporated epoxy hybrid composites. Materials Research Express, 2020, 7, 015328.	0.8	20
32	Punica Granatum Fibers as Potential Reinforcement of Composite Structures. Fibers and Polymers, 2020, 21, 1535-1549.	1.1	11
33	Investigation of Mechanical and Viscoelastic Properties of Flax- and Ramie-Reinforced Green Composites for Orthopedic Implants. Journal of Materials Engineering and Performance, 2020, 29, 3161-3171.	1.2	51
34	Interval-valued intuitionistic fuzzy TODIM method based on Schweizerâ€“Sklar power aggregation operators and their applications to group decision making. Soft Computing, 2020, 24, 14091-14133.	2.1	34
35	Synergetic Effect of Micro-bamboo Filler and Graphene Nanoplatelets on Thermomechanical Properties of Epoxy-Based Hybrid Composite. Jom, 2020, 72, 4466-4476.	0.9	12
36	Decision making tools for optimal material selection: A review. Journal of Central South University, 2020, 27, 629-673.	1.2	7

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37	Excogitating Material Rankings Using Novel Aggregation Multiplicative Rule (AMR): A Case for Material Selection Problems. Arabian Journal for Science and Engineering, 2020, 45, 5631-5646.	1.7	7
38	An Integrated Fuzzy-Based Methodology for Selection of Casting Pattern Material. Advances in Intelligent Systems and Computing, 2020, , 291-299.	0.5	1
39	Synthesis and Responsive Study of Tensile and Flexural Properties of Bamboo Filler Based Functionally Graded Composite. Lecture Notes in Mechanical Engineering, 2020, , 373-384.	0.3	0
40	Tailoring the performance of bamboo filler reinforced epoxy composite: insights into fracture properties and fracture mechanism. Journal of Polymer Research, 2019, 26, 1.	1.2	23
41	Elucidating the Coir Particle Filler Interaction in Epoxy Polymer Composites at Low Strain Rate. Fibers and Polymers, 2019, 20, 428-439.	1.1	14
42	8. Influence of drilling parameters on the thrust force and mechanical properties of biodegradable particleboard composite panels: A review. , 2019, , 167-182.		1
43	Effect of load on wear performance of coir particulate reinforced epoxy composite. AIP Conference Proceedings, 2019, , .	0.3	3
44	Modeling and Optimization of Advanced Manufacturing Processes. SpringerBriefs in Applied Sciences and Technology, 2019, , .	0.2	13
45	Development of fuzzy logic-based decision support system for multi-response parameter optimization of green manufacturing process: a case study. Soft Computing, 2019, 23, 11015-11034.	2.1	6
46	Laser Micromachining of Engineering Materialsâ€"A Review. Materials Forming, Machining and Tribology, 2019, , 121-136.	0.7	13
47	Prediction of surface roughness quality of green abrasive water jet machining: a soft computing approach. Journal of Intelligent Manufacturing, 2019, 30, 2965-2979.	4.4	44
48	Fuzzy-EDAS (Evaluation Based on Distance from Average Solution) for Material Selection Problems. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 755-771.	0.4	16
49	Parameters Optimization of FDM for the Quality of Prototypes Using an Integrated MCDM Approach. Advances in Logistics, Operations, and Management Science Book Series, 2019, , 199-220.	0.3	1
50	Recent Developments in Wire Electrical Discharge Machining. Advances in Mechatronics and Mechanical Engineering, 2019, , 125-152.	1.0	1
51	Hybrid Multi-Criteria Decision-Making Optimization Strategy for RP Material Selection. Advances in Civil and Industrial Engineering Book Series, 2019, , 320-334.	0.2	0
52	Optimum Selection of Biodiesel for Sustainable Assessment. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 94-114.	0.3	0
53	Multi Criteria Decision Making For Selection Of Material Composition For Powder Metallurgy Process. Materials Today: Proceedings, 2018, 5, 4615-4620.	0.9	12
54	Mechanical characterization and quantification of tensile, fracture and viscoelastic characteristics of wood filler reinforced epoxy composite. Wood Science and Technology, 2018, 52, 677-699.	1.4	39

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55	Assessment and Response of Treated Cocos nucifera Reinforced Toughened Epoxy Composite Towards Fracture and Viscoelastic Properties. Journal of Polymers and the Environment, 2018, 26, 2522-2535.	2.4	30
56	Green energy sources selection for sustainable energy planning using multi-criteria decision-making approach. IOP Conference Series: Materials Science and Engineering, 2018, 377, 012029.	0.3	11
57	The effect of normalization tools on green energy sources selection using multi-criteria decision-making approach: A case study in India. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	12
58	Selection of material for wind turbine blade using PROMETHEE-GAIA method. AIP Conference Proceedings, 2018, , .	0.3	2
59	Optimization of process parameters using fuzzy-grey relational analysis (F-GRA) for green EDM. AIP Conference Proceedings, 2018, , .	0.3	3
60	Social acceptance of green energy determinants using principal component analysis. Energy, 2018, 160, 1030-1046.	4.5	34
61	Bamboo fibre reinforced thermoset and thermoplastic polymer composites: A short review. AIP Conference Proceedings, 2018, , .	0.3	2
62	Cutting fluid selection for environmentally conscious design for manufacturing: An integrated theory. AIP Conference Proceedings, 2018, , .	0.3	0
63	Development of Natural Bio-Filler-Based Epoxy Composite for Wind Turbine Blade Application. Advances in Mechatronics and Mechanical Engineering, 2018, , 180-196.	1.0	1
64	A Decision-Making Approach for Material Selection of Polymeric Composite Bumper Beam. Advances in Chemical and Materials Engineering Book Series, 2018, , 112-128.	0.2	6
65	Multi-Criteria Decision Making for Optimization of Product Development Under Green Manufacturing Environment. Advances in Mechatronics and Mechanical Engineering, 2018, , 234-249.	1.0	1
66	A material selection approach using the TODIM (TOmada de Decisao Interativa Multicriterio) method and its analysis. International Journal of Materials Research, 2017, 108, 345-354.	0.1	44
67	Abrasive Water Jet Machining of Composite Materials. Materials Forming, Machining and Tribology, 2017, , 77-97.	0.7	12
68	Optimal green energy planning for sustainable development: A review. Renewable and Sustainable Energy Reviews, 2017, 71, 796-813.	8.2	129
69	Establishment and Effect of Constraint on Different Mechanical Properties of Bamboo Filler Reinforced Epoxy Composite. International Polymer Processing, 2017, 32, 308-315.	0.3	22
70	Prediction and optimization of process parameters of green composites in AWJM process using response surface methodology. International Journal of Advanced Manufacturing Technology, 2016, 87, 1359-1370.	1.5	78
71	Effect of Microstructure Degradation on Fracture Toughness of 20MnMoNi55 Steel in DBT Region. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2016, 6, 11-27.	0.3	1
72	Evaluation and effect of loss of constraint on master curve reference temperature of 20MnMoNi55 steel. Engineering Fracture Mechanics, 2015, 136, 142-157.	2.0	16

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73	Optimization of Mechanical Properties of Epoxy based Wood Dust Reinforced Green Composite Using Taguchi Method. , 2014, 5, 688-696.		51
74	Study of Mechanical Properties of Wood Dust Reinforced Epoxy Composite. , 2014, 6, 551-556.		77
75	Estimation and comparative study of JIC using different methods for 20MnMoNi55 steel. Materials & Design, 2013, 46, 680-687.	5.1	6
76	Fracture Behaviour of 20MnMoNi55 Steel in DBT Region under Corrosive Environment. Procedia Engineering, 2013, 64, 795-804.	1.2	1
77	Application and comparative study of the master curve methodology for fracture toughness characterization of 20MnMoNi55 steel. Materials & Design, 2012, 39, 309-317.	5.1	15
78	Estimation of fracture toughness of 20MnMoNi55 steel in the ductile to brittle transition region using master curve method. Nuclear Engineering and Design, 2011, 241, 2831-2838.	0.8	20
79	Analysis of Mechanical Properties of Wood Dust Reinforced Epoxy Composite Using Response Surface Methodology. Advanced Materials Research, 0, 1119, 258-262.	0.3	1
80	Estimation of Mechanical and Tribological Properties of Epoxy-Based Green Composites. Advances in Chemical and Materials Engineering Book Series, 0, , 96-124.	0.2	5
81	Investigation of the thermomechanical performance of hybrid polymer composite using micro bamboo powder and graphite flakes. Journal of Applied Polymer Science, 0, , 51806.	1.3	3
82	Assessment of Optimal Drilling Parameter for Bamboo Filler Reinforced Epoxy Composite. , 0, , .		2