Inderdeep Singh

List of Publications by Year
in descending order

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106 papers	3,518 citations	126708 33 h-index	161609 54 g-index
125 all docs	125 docs citations	125 times ranked	2383 citing authors

#	Article	IF	Citations
1	Joining Behavior of Jute/Sisal Fibers Based Epoxy Laminates Using Different Joint Configurations. Journal of Natural Fibers, 2022, 19, 2053-2064.	1.7	8
2	Extraction and Characterization of Munja Fibers and Its Potential in the Biocomposites. Journal of Natural Fibers, 2022, 19, 2675-2693.	1.7	22
3	Comparative Analysis of Molded and Drilled Holes in Jute Fiber Reinforced Plastic Laminates. Journal of Natural Fibers, 2022, 19, 7363-7373.	1.7	5
4	Selection of Natural Fiber for Sustainable Composites Using Hybrid Multi Criteria Decision Making Techniques. Composites Part C: Open Access, 2022, 7, 100224.	1.5	14
5	Joining techniques for polymer matrix composites. , 2022, , 11-32.		1
6	Joining behavior of natural fiber reinforced polymer composites. , 2022, , 33-63.		4
7	Processing of polymer matrix composites using microwave energy: A review. Composites Part A: Applied Science and Manufacturing, 2022, 156, 106870.	3.8	33
8	Hot-Plate welding behavior of Sisal and Jute Polypropylene composites. Materials and Manufacturing Processes, 2022, 37, 1203-1214.	2.7	5
9	Novel millet husk crop-residue based thermoplastic composites: Waste to value creation. Industrial Crops and Products, 2022, 182, 114891.	2.5	12
10	Development and characterisation of sugarcane bagasse nanocellulose/ PLA composites. Materials Technology, 2022, 37, 2942-2954.	1.5	6
11	Sustainable Treatments of Pineapple Leaf Fibers for Polylactic Acid Based Biocomposites. Journal of Natural Fibers, 2022, 19, 13438-13456.	1.7	4
12	Effect of particle size on physical, thermal and mechanical behaviour of epoxy composites reinforced with food waste fillers. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 3029-3035.	1.1	10
13	Thermal post-processing of bagasse fiber reinforced polypropylene composites. Composites Communications, 2021, 23, 100546.	3.3	7
14	Joining behavior of polymeric composites fabricated using agricultural waste as fillers. Journal of Adhesion Science and Technology, 2021, 35, 1652-1663.	1.4	9
15	Adhesive joining of sisal/jute/hybrid composites with drilled holes in lap area. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 255-264.	0.7	8
16	Joint Design for Adhesive Joining of Sisal/Epoxy Composite Laminates. Lecture Notes in Mechanical Engineering, 2021, , 189-198.	0.3	0
17	Comparative Performance Analysis of Polylactic Acid Parts Fabricated by 3D Printing and Injection Molding. Journal of Materials Engineering and Performance, 2021, 30, 6522-6528.	1.2	12
18	Processing of PLA/pineapple fiber based next generation composites. Materials and Manufacturing Processes, 2021, 36, 1677-1692.	2.7	18

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19	Blind Hole Fabrication in Aerospace Material Ti6Al4V Using Electric Discharge Drilling: A Tool Design Approach. Journal of Materials Engineering and Performance, 2021, 30, 8677-8685.	1.2	4
20	Processing and characterization of pineapple fiber reinforced recycled polyethylene composites. Materials Today: Proceedings, 2021, 44, 2153-2157.	0.9	8
21	Effect of Chemical Treatment on Thermal, Mechanical and Degradation Behavior of Banana Fiber Reinforced Polymer Composites. Journal of Natural Fibers, 2020, 17, 1026-1038.	1.7	50
22	PLA/banana fiber based sustainable biocomposites: A manufacturing perspective. Composites Part B: Engineering, 2020, 180, 107535.	5.9	97
23	Accelerated thermal ageing behaviour of bagasse fibers reinforced Poly (Lactic Acid) based biocomposites. Composites Part B: Engineering, 2019, 156, 121-127.	5.9	53
24	Mechanical and thermal behaviour of food waste (Citrus limetta peel) fillersâ€“based novel epoxy composites. Polymers and Polymer Composites, 2019, 27, 527-535.	1.0	29
25	Recyclability analysis of PLA/Sisal fiber biocomposites. Composites Part B: Engineering, 2019, 173, 106895.	5.9	79
26	Wear and frictional behaviour of composites filled with agro-based waste materials. Emerging Materials Research, 2019, 8, 84-93.	0.4	4
27	Introduction to Green Composites. Materials Horizons, 2019, , 1-13.	0.3	8
28	Lignocellulosic Polymer Composites: Processing, Challenges, and Opportunities. Materials Horizons, 2019, , 15-30.	0.3	6
29	A modified electrode design for improving process performance of electric discharge drilling. Journal of Materials Processing Technology, 2019, 264, 211-219.	3.1	27
30	Characterization of slurry-based mullite coating deposited on P91 steel welds. Journal of the Australian Ceramic Society, 2019, 55, 519-528.	1.1	12
31	Ecofriendly treatment of aloe vera fibers for PLA based green composites. International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 143-150.	2.7	56
32	Fabrication of micro holes in CFRP laminates using EDM. Journal of Manufacturing Processes, 2018, 31, 859-866.	2.8	48
33	A recyclability study of bagasse fiber reinforced polypropylene composites. Polymer Degradation and Stability, 2018, 152, 272-279.	2.7	58
34	Sisal fiberâ€reinforced green composites: Effect of ecofriendly fiber treatment. Polymer Composites, 2018, 39, 4310-4321.	2.3	61
35	Productivity improvement of micro EDM process by improvised tool. Precision Engineering, 2018, 51, 529-535.	1.8	59
36	Effect of environmental conditioning on natural fiber reinforced epoxy composites. Materials Today: Proceedings, 2018, 5, 17006-17011.	0.9	9

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37	Effect of chemical treatment on mechanical behavior of banana fiber reinforced polymer composites. Materials Today: Proceedings, 2018, 5, 16983-16989.	0.9	26
38	Electric discharge drilling of micro holes in CFRP laminates. Journal of Materials Processing Technology, 2018, 259, 150-158.	3.1	44
39	Response of natural fiber reinforced polymer composites when subjected to various environments. International Journal of Plastics Technology, 2018, 22, 56-72.	2.9	16
40	Hole making in natural fiber-reinforced polylactic acid laminates. Journal of Thermoplastic Composite Materials, 2017, 30, 30-46.	2.6	84
41	Electric discharge sawing of hybrid metal matrix composites. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 1775-1782.	1.5	6
42	Processing of PLA/sisal fiber biocomposites using direct- and extrusion-injection molding. Materials and Manufacturing Processes, 2017, 32, 468-474.	2.7	83
43	Optimal control of thrust force for delamination-free drilling in glass-fiber-reinforced plastic laminates. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 2396-2407.	1.5	7
44	On the analysis of force during secondary processing of natural fiberâ€reinforced composite laminates. Polymer Composites, 2017, 38, 164-174.	2.3	36
45	Low-frequency modulation-assisted drilling of carbon-epoxy composite laminates. Journal of Manufacturing Processes, 2017, 25, 262-273.	2.8	48
46	Design and development of novel cost effective casting route for production of metal matrix composites (MMCs). International Journal of Cast Metals Research, 2017, 30, 356-364.	0.5	18
47	Effect of fiber type on thermal and mechanical behavior of epoxy based composites. Fibers and Polymers, 2017, 18, 806-810.	1.1	27
48	Processing of lignocellulosic fiber-reinforced biodegradable composites. , 2017, , 163-181.		8
49	Electric discharge hole grinding in hybrid metal matrix composite. Materials and Manufacturing Processes, 2017, 32, 127-134.	2.7	9
50	An innovative tool for engineering good-quality holes in composite laminates. Materials and Manufacturing Processes, 2017, 32, 952-957.	2.7	18
51	Room temperature magnetocaloric effect in Ni-Mn-In-Cr ferromagnetic shape memory alloy thin films. Journal of Magnetism and Magnetic Materials, 2017, 424, 194-198.	1.0	10
52	Advanced Machining Techniques for Fiber-Reinforced Polymer Composites. , 2017, , 112-135.		0
53	Joining Behaviour of Fibre-Reinforced Polymer Matrix Composites. , 2017, , 227-244.		0
54	Mechanical Behavior of Nettle/Wool Fabric Reinforced Polyethylene Composites. Journal of Natural Fibers, 2016, 13, 610-618.	1.7	22

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55	Novel Aloe Vera fiber reinforced biodegradable compositesâ€"Development and characterization. Journal of Reinforced Plastics and Composites, 2016, 35, 1411-1423.	1.6	43
56	A novel intelligent software-based approach to predict forces and delamination during drilling of fiber-reinforced plastics. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 603-614.	0.7	5
57	A study about hole making in woven jute fabric-reinforced polymer composites. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 888-898.	0.7	26
58	Damage-Free Hole Making in Fiber-Reinforced Composites: An Innovative Tool Design Approach. Materials and Manufacturing Processes, 2016, 31, 1400-1408.	2.7	31
59	Prediction of forces during drilling of composite laminates using artificial neural network: A new approach. FME Transactions, 2016, 44, 36-42.	0.7	16
60	Sliding behaviour of woven industrial hemp fabric reinforced thermoplastic polymer composites. International Journal of Plastics Technology, 2015, 19, 347-362.	2.9	28
61	Composites from Bagasse Fibers, Its Characterization and Applications. , 2015, , 91-119.		2
62	Martensitic phase transformation of magnetron sputtered nanostructured Niâ€"Mnâ€"In ferromagnetic shape memory alloy thin films. Journal of Alloys and Compounds, 2015, 642, 53-62.	2.8	30
63	Drilling of metal matrix composites: Experimental and finite element analysis. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 886-890.	1.5	21
64	Rotary mode ultrasonic drilling of glass fiber-reinforced epoxy laminates. Journal of Composite Materials, 2015, 49, 949-963.	1.2	57
65	Advanced Machining Techniques for Fiber-Reinforced Polymer Composites. Advances in Chemical and Materials Engineering Book Series, 2015, , 317-340.	0.2	2
66	Design and development of abrasive-assisted drilling process for improvement in surface finish during drilling of metal matrix composites. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 858-867.	1.5	3
67	Drilling Characteristics of Sisal Fiber-Reinforced Epoxy and Polypropylene Composites. Materials and Manufacturing Processes, 2014, 29, 1401-1409.	2.7	111
68	Sliding Wear Properties of Jute Fabric Reinforced Polypropylene Composites. Procedia Engineering, 2014, 97, 402-411.	1.2	96
69	Optimal control during drilling in GFRP composite laminates. Multidiscipline Modeling in Materials and Structures, 2014, 10, 611-630.	0.6	4
70	Modulation-Assisted Drilling of Glass-Fiber-Reinforced Plastics. Materials and Manufacturing Processes, 2014, 29, 370-378.	2.7	13
71	Drilling of Glass Fiber-Reinforced Epoxy Laminates with Natural Fillers: Thrust Force Analysis. Lecture Notes in Mechanical Engineering, 2014, , 105-115.	0.3	1
72	PID control of torque during drilling in GFRP laminates. Multidiscipline Modeling in Materials and Structures, 2014, 10, 346-361.	0.6	7

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73	Development and characterization of PLA-based green composites. Journal of Thermoplastic Composite Materials, 2014, 27, 52-81.	2.6	255
74	Curing of natural fibre-reinforced thermoplastic composites using microwave energy. Journal of Reinforced Plastics and Composites, 2014, 33, 993-999.	1.6	21
75	Effect of Natural Fillers on Wear Behavior of Glass-Fiber-Reinforced Epoxy Composites. Lecture Notes in Mechanical Engineering, 2014, , 441-450.	0.3	2
76	Processing and Properties of Bagasse Fibers. , 2014, , 63-75.		1
77	Predicting Drilling Forces and Delamination in GFRP Laminates using Fuzzy Logic. International Journal of Materials Forming and Machining Processes, 2014, 1, 32-43.	0.6	1
78	Electro Discharge Drilling of Hybrid MMC. Procedia Engineering, 2013, 64, 1337-1343.	1.2	21
79	Process Optimization for Electro-Discharge Drilling of Metal Matrix Composites. Procedia Engineering, 2013, 64, 1157-1165.	1.2	16
80	A review of modeling and control during drilling of fiber reinforced plastic composites. Composites Part B: Engineering, 2013, 47, 118-125.	5.9	116
81	Tribological behavior of natural fiber reinforced PLA composites. Wear, 2013, 297, 829-840.	1.5	263
82	Multi objective optimization in drilling of Al6063/10% SiC metal matrix composite based on grey relational analysis. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 1767-1776.	1.5	35
83	Frictional and adhesive wear performance of natural fibre reinforced polypropylene composites. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2013, 227, 385-392.	1.0	42
84	Electric discharge drilling of metal matrix composites with different tool geometries. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 1245-1249.	1.5	17
85	Tensile Behavior of Nettle Fiber Composites Exposed to Various Environments. Journal of Natural Fibers, 2013, 10, 244-256.	1.7	47
86	Drilling behavior of sisal fiber-reinforced polypropylene composite laminates. Journal of Reinforced Plastics and Composites, 2013, 32, 1569-1576.	1.6	97
87	Conventional and unconventional hole making in metal matrix composites. , 2013, , 169-193.		4
88	Effect of Natural Fillers on Mechanical Properties of GFRP Composites. Journal of Composites, 2013, 2013, 1-8.	0.8	43
89	Predicting forces and damage in drilling of polymer composites: soft computing techniques. , 2012, , 227-258.		0
90	Drilling of Glass Fiber/Vinyl Ester Composites with Fillers. Materials and Manufacturing Processes, 2012, 27, 314-319.	2.7	42

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91	Comparative studies of mechanical and morphological properties of polylactic acid and polypropylene based natural fiber composites. Journal of Reinforced Plastics and Composites, 2012, 31, 1712-1724.	1.6	139
92	Finite element model for microwave heating of thermoplastic composites. International Journal of Materials Engineering Innovation, 2012, 3, 247.	0.2	4
93	Joining of natural fiber reinforced composites using microwave energy: Experimental and finite element study. Materials & Design, 2012, 35, 596-602.	5.1	74
94	Effect of EDM process parameters on surface quality of Al 6063 SiC<SUB align=right>p metal matrix composite. International Journal of Materials and Product Technology, 2010, 39, 357.	0.1	8
95	Neural network approach for estimating the residual tensile strength after drilling in uni-directional glass fiber reinforced plastic laminates. Materials & Design, 2010, 31, 2790-2795.	5.1	78
96	Behavior of Kevlar/Epoxy Composite Plates Under Ballistic Impact. Journal of Reinforced Plastics and Composites, 2010, 29, 2048-2064.	1.6	77
97	Mechanical and Wear Characterization of GF Reinforced Vinyl Ester Resin Composites with Different Co-Monomers. Journal of Reinforced Plastics and Composites, 2009, 28, 2675-2684.	1.6	22
98	Experimental investigation and optimisation in EDM of Al 6063 SiC<SUB align=right>p metal matrix composite. International Journal of Machining and Machinability of Materials, 2008, 3, 293.	0.1	45
99	Prediction of thrust force and torque when drilling composite materials. International Journal of Materials and Product Technology, 2008, 32, 213.	0.1	15
100	Drilling of uni-directional glass fiber reinforced plastic (UD-GFRP) composite laminates. International Journal of Advanced Manufacturing Technology, 2006, 27, 870-876.	1.5	103
101	Drilling-induced damage in uni-directional glass fiber reinforced plastic (UD-GFRP) composite laminates. International Journal of Advanced Manufacturing Technology, 2006, 27, 877-882.	1.5	56
102	Microwave Joining of Natural Fiber Reinforced Green Composites. Advanced Materials Research, 0, 410, 102-105.	0.3	18
103	Optimization of the Process Parameters for Drilling of Metal Matrix Composites (MMC) Using Taguchi Analysis. Advanced Materials Research, 0, 410, 249-252.	0.3	14
104	Compressive Behavior of Glass Fiber Reinforced Plastic Laminates with Drilled Hole. Advanced Materials Research, 0, 410, 349-352.	0.3	3
105	Design and Development of Electro-Discharge Drilling Process. Advanced Materials Research, 0, 651, 607-611.	0.3	3
106	Predicting Drilling Forces and Delamination in GFRP Laminates using Fuzzy Logic. , 0, , 1040-1051.		0