

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	Tribological behavior of natural fiber reinforced PLA composites. <i>Wear</i> , 2013, 297, 829-840.	1.5	263
2	Development and characterization of PLA-based green composites. <i>Journal of Thermoplastic Composite Materials</i> , 2014, 27, 52-81.	2.6	255
3	Comparative studies of mechanical and morphological properties of polylactic acid and polypropylene based natural fiber composites. <i>Journal of Reinforced Plastics and Composites</i> , 2012, 31, 1712-1724.	1.6	139
4	A review of modeling and control during drilling of fiber reinforced plastic composites. <i>Composites Part B: Engineering</i> , 2013, 47, 118-125.	5.9	116
5	Drilling Characteristics of Sisal Fiber-Reinforced Epoxy and Polypropylene Composites. <i>Materials and Manufacturing Processes</i> , 2014, 29, 1401-1409.	2.7	111
6	Drilling of uni-directional glass fiber reinforced plastic (UD-GFRP) composite laminates. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 27, 870-876.	1.5	103
7	Drilling behavior of sisal fiber-reinforced polypropylene composite laminates. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 1569-1576.	1.6	97
8	PLA/banana fiber based sustainable biocomposites: A manufacturing perspective. <i>Composites Part B: Engineering</i> , 2020, 180, 107535.	5.9	97
9	Sliding Wear Properties of Jute Fabric Reinforced Polypropylene Composites. <i>Procedia Engineering</i> , 2014, 97, 402-411.	1.2	96
10	Hole making in natural fiber-reinforced polylactic acid laminates. <i>Journal of Thermoplastic Composite Materials</i> , 2017, 30, 30-46.	2.6	84
11	Processing of PLA/sisal fiber biocomposites using direct- and extrusion-injection molding. <i>Materials and Manufacturing Processes</i> , 2017, 32, 468-474.	2.7	83
12	Recyclability analysis of PLA/Sisal fiber biocomposites. <i>Composites Part B: Engineering</i> , 2019, 173, 106895.	5.9	79
13	Neural network approach for estimating the residual tensile strength after drilling in uni-directional glass fiber reinforced plastic laminates. <i>Materials & Design</i> , 2010, 31, 2790-2795.	5.1	78
14	Behavior of Kevlar/Epoxy Composite Plates Under Ballistic Impact. <i>Journal of Reinforced Plastics and Composites</i> , 2010, 29, 2048-2064.	1.6	77
15	Joining of natural fiber reinforced composites using microwave energy: Experimental and finite element study. <i>Materials & Design</i> , 2012, 35, 596-602.	5.1	74
16	Sisal fiber reinforced green composites: Effect of ecofriendly fiber treatment. <i>Polymer Composites</i> , 2018, 39, 4310-4321.	2.3	61
17	Productivity improvement of micro EDM process by improvised tool. <i>Precision Engineering</i> , 2018, 51, 529-535.	1.8	59
18	A recyclability study of bagasse fiber reinforced polypropylene composites. <i>Polymer Degradation and Stability</i> , 2018, 152, 272-279.	2.7	58

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19	Rotary mode ultrasonic drilling of glass fiber-reinforced epoxy laminates. <i>Journal of Composite Materials</i> , 2015, 49, 949-963.	1.2	57
20	Drilling-induced damage in uni-directional glass fiber reinforced plastic (UD-GFRP) composite laminates. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 27, 877-882.	1.5	56
21	Ecofriendly treatment of aloe vera fibers for PLA based green composites. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018, 5, 143-150.	2.7	56
22	Accelerated thermal ageing behaviour of bagasse fibers reinforced Poly (Lactic Acid) based biocomposites. <i>Composites Part B: Engineering</i> , 2019, 156, 121-127.	5.9	53
23	Effect of Chemical Treatment on Thermal, Mechanical and Degradation Behavior of Banana Fiber Reinforced Polymer Composites. <i>Journal of Natural Fibers</i> , 2020, 17, 1026-1038.	1.7	50
24	Low-frequency modulation-assisted drilling of carbon-epoxy composite laminates. <i>Journal of Manufacturing Processes</i> , 2017, 25, 262-273.	2.8	48
25	Fabrication of micro holes in CFRP laminates using EDM. <i>Journal of Manufacturing Processes</i> , 2018, 31, 859-866.	2.8	48
26	Tensile Behavior of Nettle Fiber Composites Exposed to Various Environments. <i>Journal of Natural Fibers</i> , 2013, 10, 244-256.	1.7	47
27	Experimental investigation and optimisation in EDM of Al 6063 SiC _p metal matrix composite. <i>International Journal of Machining and Machinability of Materials</i> , 2008, 3, 293.	0.1	45
28	Electric discharge drilling of micro holes in CFRP laminates. <i>Journal of Materials Processing Technology</i> , 2018, 259, 150-158.	3.1	44
29	Effect of Natural Fillers on Mechanical Properties of GFRP Composites. <i>Journal of Composites</i> , 2013, 2013, 1-8.	0.8	43
30	Novel Aloe Vera fiber reinforced biodegradable composites—Development and characterization. <i>Journal of Reinforced Plastics and Composites</i> , 2016, 35, 1411-1423.	1.6	43
31	Drilling of Glass Fiber/Vinyl Ester Composites with Fillers. <i>Materials and Manufacturing Processes</i> , 2012, 27, 314-319.	2.7	42
32	Frictional and adhesive wear performance of natural fibre reinforced polypropylene composites. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2013, 227, 385-392.	1.0	42
33	On the analysis of force during secondary processing of natural fiber reinforced composite laminates. <i>Polymer Composites</i> , 2017, 38, 164-174.	2.3	36
34	Multi objective optimization in drilling of Al6063/10% SiC metal matrix composite based on grey relational analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2013, 227, 1767-1776.	1.5	35
35	Processing of polymer matrix composites using microwave energy: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 156, 106870.	3.8	33
36	Damage-Free Hole Making in Fiber-Reinforced Composites: An Innovative Tool Design Approach. <i>Materials and Manufacturing Processes</i> , 2016, 31, 1400-1408.	2.7	31

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37	Martensitic phase transformation of magnetron sputtered nanostructured Ni-Mn-In ferromagnetic shape memory alloy thin films. <i>Journal of Alloys and Compounds</i> , 2015, 642, 53-62.	2.8	30
38	Mechanical and thermal behaviour of food waste (<i>Citrus limetta</i> peel) fillers-based novel epoxy composites. <i>Polymers and Polymer Composites</i> , 2019, 27, 527-535.	1.0	29
39	Sliding behaviour of woven industrial hemp fabric reinforced thermoplastic polymer composites. <i>International Journal of Plastics Technology</i> , 2015, 19, 347-362.	2.9	28
40	Effect of fiber type on thermal and mechanical behavior of epoxy based composites. <i>Fibers and Polymers</i> , 2017, 18, 806-810.	1.1	27
41	A modified electrode design for improving process performance of electric discharge drilling. <i>Journal of Materials Processing Technology</i> , 2019, 264, 211-219.	3.1	27
42	A study about hole making in woven jute fabric-reinforced polymer composites. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016, 230, 888-898.	0.7	26
43	Effect of chemical treatment on mechanical behavior of banana fiber reinforced polymer composites. <i>Materials Today: Proceedings</i> , 2018, 5, 16983-16989.	0.9	26
44	Mechanical and Wear Characterization of GF Reinforced Vinyl Ester Resin Composites with Different Co-Monomers. <i>Journal of Reinforced Plastics and Composites</i> , 2009, 28, 2675-2684.	1.6	22
45	Mechanical Behavior of Nettle/Wool Fabric Reinforced Polyethylene Composites. <i>Journal of Natural Fibers</i> , 2016, 13, 610-618.	1.7	22
46	Extraction and Characterization of Munja Fibers and Its Potential in the Biocomposites. <i>Journal of Natural Fibers</i> , 2022, 19, 2675-2693.	1.7	22
47	Electro Discharge Drilling of Hybrid MMC. <i>Procedia Engineering</i> , 2013, 64, 1337-1343.	1.2	21
48	Curing of natural fibre-reinforced thermoplastic composites using microwave energy. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 993-999.	1.6	21
49	Drilling of metal matrix composites: Experimental and finite element analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 886-890.	1.5	21
50	Microwave Joining of Natural Fiber Reinforced Green Composites. <i>Advanced Materials Research</i> , 0, 410, 102-105.	0.3	18
51	Design and development of novel cost effective casting route for production of metal matrix composites (MMCs). <i>International Journal of Cast Metals Research</i> , 2017, 30, 356-364.	0.5	18
52	An innovative tool for engineering good-quality holes in composite laminates. <i>Materials and Manufacturing Processes</i> , 2017, 32, 952-957.	2.7	18
53	Processing of PLA/pineapple fiber based next generation composites. <i>Materials and Manufacturing Processes</i> , 2021, 36, 1677-1692.	2.7	18
54	Electric discharge drilling of metal matrix composites with different tool geometries. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2013, 227, 1245-1249.	1.5	17

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55	Process Optimization for Electro-Discharge Drilling of Metal Matrix Composites. <i>Procedia Engineering</i> , 2013, 64, 1157-1165.	1.2	16
56	Response of natural fiber reinforced polymer composites when subjected to various environments. <i>International Journal of Plastics Technology</i> , 2018, 22, 56-72.	2.9	16
57	Prediction of forces during drilling of composite laminates using artificial neural network: A new approach. <i>FME Transactions</i> , 2016, 44, 36-42.	0.7	16
58	Prediction of thrust force and torque when drilling composite materials. <i>International Journal of Materials and Product Technology</i> , 2008, 32, 213.	0.1	15
59	Optimization of the Process Parameters for Drilling of Metal Matrix Composites (MMC) Using Taguchi Analysis. <i>Advanced Materials Research</i> , 0, 410, 249-252.	0.3	14
60	Selection of Natural Fiber for Sustainable Composites Using Hybrid Multi Criteria Decision Making Techniques. <i>Composites Part C: Open Access</i> , 2022, 7, 100224.	1.5	14
61	Modulation-Assisted Drilling of Glass-Fiber-Reinforced Plastics. <i>Materials and Manufacturing Processes</i> , 2014, 29, 370-378.	2.7	13
62	Characterization of slurry-based mullite coating deposited on P91 steel welds. <i>Journal of the Australian Ceramic Society</i> , 2019, 55, 519-528.	1.1	12
63	Comparative Performance Analysis of Polylactic Acid Parts Fabricated by 3D Printing and Injection Molding. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 6522-6528.	1.2	12
64	Novel millet husk crop-residue based thermoplastic composites: Waste to value creation. <i>Industrial Crops and Products</i> , 2022, 182, 114891.	2.5	12
65	Room temperature magnetocaloric effect in Ni-Mn-In-Cr ferromagnetic shape memory alloy thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 424, 194-198.	1.0	10
66	Effect of particle size on physical, thermal and mechanical behaviour of epoxy composites reinforced with food waste fillers. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 3029-3035.	1.1	10
67	Electric discharge hole grinding in hybrid metal matrix composite. <i>Materials and Manufacturing Processes</i> , 2017, 32, 127-134.	2.7	9
68	Effect of environmental conditioning on natural fiber reinforced epoxy composites. <i>Materials Today: Proceedings</i> , 2018, 5, 17006-17011.	0.9	9
69	Joining behavior of polymeric composites fabricated using agricultural waste as fillers. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 1652-1663.	1.4	9
70	Effect of EDM process parameters on surface quality of Al 6063 SiC₂ metal matrix composite. <i>International Journal of Materials and Product Technology</i> , 2010, 39, 357.	0.1	8
71	Processing of lignocellulosic fiber-reinforced biodegradable composites. , 2017, , 163-181.		8
72	Introduction to Green Composites. <i>Materials Horizons</i> , 2019, , 1-13.	0.3	8

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73	Joining Behavior of Jute/Sisal Fibers Based Epoxy Laminates Using Different Joint Configurations. Journal of Natural Fibers, 2022, 19, 2053-2064.	1.7	8
74	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
75	Processing and characterization of pineapple fiber reinforced recycled polyethylene composites. Materials Today: Proceedings, 2021, 44, 2153-2157.	0.9	8
76	PID control of torque during drilling in GFRP laminates. Multidiscipline Modeling in Materials and Structures, 2014, 10, 346-361.	0.6	7
77	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
78	Thermal post-processing of bagasse fiber reinforced polypropylene composites. Composites Communications, 2021, 23, 100546.	3.3	7
79	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
80	Lignocellulosic Polymer Composites: Processing, Challenges, and Opportunities. Materials Horizons, 2019, , 15-30.	0.3	6
81	Development and characterisation of sugarcane bagasse nanocellulose/ PLA composites. Materials Technology, 2022, 37, 2942-2954.	1.5	6
82	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
83	Comparative Analysis of Molded and Drilled Holes in Jute Fiber Reinforced Plastic Laminates. Journal of Natural Fibers, 2022, 19, 7363-7373.	1.7	5
84	Hot-Plate welding behavior of Sisal and Jute Polypropylene composites. Materials and Manufacturing Processes, 2022, 37, 1203-1214.	2.7	5
85	Finite element model for microwave heating of thermoplastic composites. International Journal of Materials Engineering Innovation, 2012, 3, 247.	0.2	4
86	Conventional and unconventional hole making in metal matrix composites. , 2013, , 169-193.		4
87	Optimal control during drilling in GFRP composite laminates. Multidiscipline Modeling in Materials and Structures, 2014, 10, 611-630.	0.6	4
88	Wear and frictional behaviour of composites filled with agro-based waste materials. Emerging Materials Research, 2019, 8, 84-93.	0.4	4
89	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
90	Joining behavior of natural fiber reinforced polymer composites. , 2022, , 33-63.		4

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91	Sustainable Treatments of Pineapple Leaf Fibers for Polylactic Acid Based Biocomposites. Journal of Natural Fibers, 2022, 19, 13438-13456.	1.7	4
92	Compressive Behavior of Glass Fiber Reinforced Plastic Laminates with Drilled Hole. Advanced Materials Research, 0, 410, 349-352.	0.3	3
93	Design and Development of Electro-Discharge Drilling Process. Advanced Materials Research, 0, 651, 607-611.	0.3	3
94	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
95	Composites from Bagasse Fibers, Its Characterization and Applications. , 2015, , 91-119.		2
96	Effect of Natural Fillers on Wear Behavior of Glass-Fiber-Reinforced Epoxy Composites. Lecture Notes in Mechanical Engineering, 2014, , 441-450.	0.3	2
97	Advanced Machining Techniques for Fiber-Reinforced Polymer Composites. Advances in Chemical and Materials Engineering Book Series, 2015, , 317-340.	0.2	2
98	Drilling of Glass Fiber-Reinforced Epoxy Laminates with Natural Fillers: Thrust Force Analysis. Lecture Notes in Mechanical Engineering, 2014, , 105-115.	0.3	1
99	Processing and Properties of Bagasse Fibers. , 2014, , 63-75.		1
100	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
101	Joining techniques for polymer matrix composites. , 2022, , 11-32.		1
102	Predicting forces and damage in drilling of polymer composites: soft computing techniques. , 2012, , 227-258.		0
103	Joint Design for Adhesive Joining of Sisal/Epoxy Composite Laminates. Lecture Notes in Mechanical Engineering, 2021, , 189-198.	0.3	0
104	Advanced Machining Techniques for Fiber-Reinforced Polymer Composites. , 2017, , 112-135.		0
105	Joining Behaviour of Fibre-Reinforced Polymer Matrix Composites. , 2017, , 227-244.		0
106	Predicting Drilling Forces and Delamination in GFRP Laminates using Fuzzy Logic. , 0, , 1040-1051.		0