

Jinyang Xu

List of Publications by Year in descending order

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78
papers

2,474
citations

201575

27
h-index

214721

47
g-index

80
all docs

80
docs citations

80
times ranked

1011
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in drilling hybrid FRP/Ti composite: A state-of-the-art review. <i>Composite Structures</i> , 2016, 135, 316-338.	3.1	190
2	Study of drilling-induced defects for CFRP composites using new criteria. <i>Composite Structures</i> , 2018, 201, 1076-1087.	3.1	153
3	Wear performance of (nc-AlTiN)/(a-Si ₃ N ₄) coating and (nc-AlCrN)/(a-Si ₃ N ₄) coating in high-speed machining of titanium alloys under dry and minimum quantity lubrication (MQL) conditions. <i>Wear</i> , 2013, 305, 249-259.	1.5	146
4	Experimental study on drilling mechanisms and strategies of hybrid CFRP/Ti stacks. <i>Composite Structures</i> , 2016, 157, 461-482.	3.1	125
5	Drilling machinability evaluation on new developed high-strength T800S/250F CFRP laminates. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1687-1696.	1.1	114
6	A comparative evaluation of polycrystalline diamond drills in drilling high-strength T800S/250F CFRP. <i>Composite Structures</i> , 2014, 117, 71-82.	3.1	111
7	A critical review of the drilling of CFRP composites: Burr formation, characterisation and challenges. <i>Composites Part B: Engineering</i> , 2021, 223, 109155.	5.9	91
8	An investigation of drilling high-strength CFRP composites using specialized drills. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 3425-3442.	1.5	74
9	Comparative study of minimum quantity lubrication and dry drilling of CFRP/titanium stacks using TiAlN and diamond coated drills. <i>Composite Structures</i> , 2020, 234, 111727.	3.1	64
10	A critical review addressing drilling-induced damage of CFRP composites. <i>Composite Structures</i> , 2022, 294, 115594.	3.1	64
11	On the analysis of temperatures, surface morphologies and tool wear in drilling CFRP/Ti6Al4V stacks under different cutting sequence strategies. <i>Composite Structures</i> , 2020, 234, 111708.	3.1	61
12	Experimental study on mechanical drilling of carbon/epoxy composite-Ti6Al4V stacks. <i>Materials and Manufacturing Processes</i> , 2019, 34, 715-725.	2.7	60
13	On the machining behavior of carbon fiber reinforced polyimide and <sc>PEEK</sc> thermoplastic composites. <i>Polymer Composites</i> , 2020, 41, 3649-3663.	2.3	60
14	A comparison between vibration assisted and conventional drilling of CFRP/Ti6Al4V stacks. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1182-1193.	2.7	53
15	Tool wear processes in low frequency vibration assisted drilling of CFRP/Ti6Al4V stacks with forced air-cooling. <i>Wear</i> , 2019, 426-427, 1616-1623.	1.5	51
16	Experimental investigation on hard milling of high strength steel using PVD-AlTiN coated cemented carbide tool. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 43, 94-101.	1.7	46
17	Investigation of minimum quantity lubrication effects in drilling CFRP/Ti6Al4V stacks. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1401-1410.	2.7	45
18	Enhanced hydrophilicity and tribological behavior of dental zirconia ceramics based on picosecond laser surface texturing. <i>Ceramics International</i> , 2020, 46, 7161-7169.	2.3	44

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19	Drilling characteristics of carbon/epoxy and carbon/polyimide composites. <i>Materials and Manufacturing Processes</i> , 2020, 35, 1732-1740.	2.7	43
20	Wear characteristics of polycrystalline diamond tools in orthogonal cutting of CFRP/Ti stacks. <i>Wear</i> , 2017, 376-377, 91-106.	1.5	42
21	Drilling of carbon fibre reinforced polymer (CFRP) composites: Difficulties, challenges and expectations. <i>Procedia Manufacturing</i> , 2021, 54, 284-289.	1.9	41
22	A coupling method of response surfaces (CRSM) for cutting parameters optimization in machining titanium alloy under minimum quantity lubrication (MQL) condition. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 693-702.	1.1	39
23	Wear behavior of special tools in the drilling of CFRP composite laminates. <i>Wear</i> , 2021, 476, 203738.	1.5	39
24	Numerical modeling of stacked composite CFRP/Ti machining under different cutting sequence strategies. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 99-107.	1.1	38
25	Experimental investigation on drilling machinability and hole quality of CFRP/Ti6Al4V stacks under different cooling conditions. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 109, 1527-1539.	1.5	38
26	On the interpretation of drilling CFRP/Ti6Al4V stacks using the orthogonal cutting method: Chip removal mode and subsurface damage formation. <i>Journal of Manufacturing Processes</i> , 2019, 44, 435-447.	2.8	37
27	Cutting Modeling of Hybrid CFRP/Ti Composite with Induced Damage Analysis. <i>Materials</i> , 2016, 9, 22.	1.3	28
28	Experimental Studies on the Cutting Characteristics of Hybrid CFRP/Ti Stacks. <i>Procedia Manufacturing</i> , 2016, 5, 270-281.	1.9	28
29	Delamination and chip breaking mechanism of orthogonal cutting CFRP/Ti6Al4V composite. <i>Journal of Manufacturing Processes</i> , 2022, 73, 183-196.	2.8	27
30	Study on the Frictional Heat at Tool-Work Interface when Drilling CFRP Composites. <i>Procedia Manufacturing</i> , 2018, 26, 415-423.	1.9	26
31	Effects of Different Cooling Methods on the Specific Energy Consumption when Drilling CFRP/Ti6Al4V Stacks. <i>Procedia Manufacturing</i> , 2020, 43, 95-102.	1.9	26
32	A Study on Drilling High-Strength CFRP Laminates: Frictional Heat and Cutting Temperature. <i>Materials</i> , 2018, 11, 2366.	1.3	25
33	Numerical study of interface damage formation mechanisms in machining CFRP/Ti6Al4V stacks under different cutting sequence strategies. <i>Composite Structures</i> , 2022, 285, 115236.	3.1	25
34	Cutting modeling using cohesive zone concept of titanium/CFRP composite stacks. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 2091-2100.	1.1	24
35	Orthogonal cutting mechanisms of CFRP/Ti6Al4V stacks. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 3831-3851.	1.5	24
36	Numerical studies of frictional responses when cutting hybrid CFRP/Ti composite. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 657-675.	1.5	22

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37	Wear mechanisms and effects of monolithic Sialon ceramic tools in side milling of superalloy FGH96. <i>Ceramics International</i> , 2020, 46, 26813-26822.	2.3	22
38	Improving wettability, antibacterial and tribological behaviors of zirconia ceramics through surface texturing. <i>Ceramics International</i> , 2022, 48, 3702-3710.	2.3	22
39	Toward the mechanisms of surface texturing on the wear behavior of dental zirconia ceramics under dry and saliva lubricated conditions. <i>Wear</i> , 2021, 484-485, 203845.	1.5	18
40	An experimental investigation on cutting-induced damage when drilling high-strength T800S/250F carbon fiber reinforced polymer. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 1931-1940.	1.5	17
41	Analysis of cutting responses of Sialon ceramic tools in high-speed milling of FGH96 superalloys. <i>Ceramics International</i> , 2021, 47, 149-156.	2.3	16
42	Application of ANN for Analysis of Hole Accuracy and Drilling Temperature When Drilling CFRP/Ti Alloy Stacks. <i>Materials</i> , 2022, 15, 1940.	1.3	16
43	Influence of sintering temperatures on material properties and corresponding milling machinability of zirconia ceramics. <i>Journal of Manufacturing Processes</i> , 2021, 68, 646-656.	2.8	15
44	Machining responses of high-strength carbon/epoxy composites using diamond-coated brad spur drills. <i>Materials and Manufacturing Processes</i> , 2021, 36, 722-729.	2.7	15
45	On the Machining Temperature and Hole Quality of CFRP Laminates When Using Diamond-Coated Special Drills. <i>Journal of Composites Science</i> , 2022, 6, 45.	1.4	15
46	Design and Analysis of Biomedical Scaffolds Using TPMS-Based Porous Structures Inspired from Additive Manufacturing. <i>Coatings</i> , 2022, 12, 839.	1.2	15
47	Machinability improvement of compacted graphite irons in milling process with supercritical CO ₂ -based MQL. <i>Journal of Manufacturing Processes</i> , 2021, 68, 154-168.	2.8	14
48	An investigation on wear mechanism of high-speed turning of free-cutting steel AISI 1215 using uncoated and multi-layer coated tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 517-533.	1.5	13
49	On the quantitative analysis of drill edge wear when machining CFRP/Ti6Al4V stacks. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 1463-1472.	1.5	13
50	Experimental investigation on drilling of high strength T800S/250F CFRP with twist and dagger drill bits. <i>International Journal of Abrasive Technology</i> , 2014, 6, 183.	0.2	12
51	Wear and failure mechanisms of SiAlON ceramic tools during high-speed turning of nickel-based superalloys. <i>Wear</i> , 2022, 488-489, 204171.	1.5	11
52	Nano-scale mechanical behaviors and material removal mechanisms of zirconia ceramics sintered at various temperatures. <i>Ceramics International</i> , 2021, 47, 32588-32598.	2.3	10
53	Investigation of material removal mechanisms and ductile-brittle transition zone of zirconia ceramics sintered at various temperatures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 125, 104944.	1.5	10
54	Experimental Study on High-Speed Turning of Free-Cutting Steel AISI 12L14 Using Multi-Layer Coated Carbide Tools. <i>Advanced Materials Research</i> , 0, 500, 3-7.	0.3	9

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55	Finite element modeling of high-speed milling 7050-T7451 alloys. <i>Procedia Manufacturing</i> , 2020, 43, 471-478.	1.9	9
56	Wear Mechanism of High-Speed Turning Ti-6Al-4V with TiAlN and AlTiN Coated Tools in Dry and MQL Conditions. <i>Advanced Materials Research</i> , 2012, 497, 30-34.	0.3	8
57	Experimental Investigation on Drilling Force and Hole Quality when Drilling of T800S/250F CFRP Laminate. <i>Advanced Materials Research</i> , 2013, 797, 155-160.	0.3	7
58	An experimental investigation on milling features of fully-sintered zirconia ceramics using PCD tools. <i>Materials and Manufacturing Processes</i> , 2022, 37, 318-326.	2.7	7
59	Numerical Modeling and FE Analysis of CFRP/Ti Stack Orthogonal Cutting. <i>Procedia CIRP</i> , 2016, 46, 67-70.	1.0	6
60	Evaluation of Polycrystalline Diamond Tools in Milling of Pre-Sintered and Fully-Sintered Zirconia Ceramics. <i>Journal of Superhard Materials</i> , 2022, 44, 62-69.	0.5	6
61	A Review on the Machinability of Aerospace-Grade CFRP/Titanium Stacks. <i>Advanced Materials Letters</i> , 2021, 12, 1-7.	0.3	5
62	Machining of Fibrous Composites: Recent Advances and Future Perspectives. <i>Materials Forming, Machining and Tribology</i> , 2022, , 161-177.	0.7	5
63	A drilling case study in polymer composites reinforced by virgin and recycled carbon fibres (CFRP and) Tj ETQq1 1 0.784314 rgBT /Ove Technology, 2022, 120, 2603-2615.	1.5	5
64	On crack suppression mechanisms of ultrasonic elliptical vibration cutting of 3Y-TZP ceramics. <i>Ceramics International</i> , 2022, 48, 28308-28326.	2.3	5
65	Experimental Investigation on Machine-Induced Damages during the Milling Test of Graphene/Carbon Incorporated Thermoset Polymer Nanocomposites. <i>Journal of Composites Science</i> , 2022, 6, 77.	1.4	4
66	Analysis on Milling Performance of 2024-T351 Aluminum Alloy Using TiAlN Coated Carbide Cutting Tools. <i>Materials Science Forum</i> , 0, 697-698, 218-222.	0.3	3
67	Machinability Study on Hard Milling of Ultra-High Strength Steel 30Cr3SiNiMoVA. <i>Advanced Materials Research</i> , 0, 565, 496-502.	0.3	3
68	Effect of Drills with Different Drill Bits on Delamination in Drilling Composite Materials. <i>Key Engineering Materials</i> , 0, 589-590, 173-178.	0.4	3
69	Drilling performance of uncoated brad spur tools for high-strength carbon fiber-reinforced polymer laminates. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 1879-1889.	0.7	3
70	Finite element analysis when orthogonal cutting of hybrid composite CFRP/Ti. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 87, 012059.	0.3	2
71	An experimental investigation on orthogonal cutting of hybrid CFRP/Ti stacks. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
72	Orthogonal cutting modeling of hybrid CFRP/Ti toward specific cutting energy and induced damage analyses. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1

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73	Effects of specialized drill bits on hole defects of CFRP laminates. AIP Conference Proceedings, 2018, , .	0.3	1
74	Quantitative evaluation method of tool wear based on morphological characteristics of machined surfaces. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2023, 237, 81-90.	1.5	1
75	Manufacturing of Fibrous Composites for Engineering Applications. Journal of Composites Science, 2022, 6, 187.	1.4	1
76	Experimental and Numerical Investigations in Mechanical Machining of Fibre-Reinforced Composite Materials. Advances in Materials Science and Engineering, 2021, 2021, 1-1.	1.0	0
77	Numerical Study of the Effects of Tool Parameters on the Cutting Temperature Distribution and Ignition Risks of Magnesium Alloys. Advances in Transdisciplinary Engineering, 2022, , .	0.1	0
78	Advanced Coating Materials for Machining Processes. Coatings, 2022, 12, 910.	1.2	0