

Fuda Ning

List of Publications by Year in descending order

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59
papers

3,462
citations

218592

26
h-index

197736

49
g-index

59
all docs

59
docs citations

59
times ranked

2976
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive manufacturing of carbon fiber reinforced thermoplastic composites using fused deposition modeling. <i>Composites Part B: Engineering</i> , 2015, 80, 369-378.	5.9	1,159
2	Additive manufacturing of carbon fiber-reinforced plastic composites using fused deposition modeling: Effects of process parameters on tensile properties. <i>Journal of Composite Materials</i> , 2017, 51, 451-462.	1.2	437
3	Laser deposition-additive manufacturing of TiB-Ti composites with novel three-dimensional quasi-continuous network microstructure: Effects on strengthening and toughening. <i>Composites Part B: Engineering</i> , 2018, 133, 91-100.	5.9	147
4	Ultrasonic vibration-assisted (UV-A) manufacturing processes: State of the art and future perspectives. <i>Journal of Manufacturing Processes</i> , 2020, 51, 174-190.	2.8	113
5	A fundamental investigation on ultrasonic vibration-assisted laser engineered net shaping of stainless steel. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 121, 61-69.	6.2	107
6	3D printing of an extremely tough hydrogel. <i>RSC Advances</i> , 2015, 5, 81324-81329.	1.7	97
7	Ultrasonic vibration-assisted laser engineering net shaping of ZrO ₂ -Al ₂ O ₃ bulk parts: Effects on crack suppression, microstructure, and mechanical properties. <i>Ceramics International</i> , 2018, 44, 2752-2760.	2.3	79
8	Microstructures and mechanical properties of Fe-Cr stainless steel parts fabricated by ultrasonic vibration-assisted laser engineered net shaping process. <i>Materials Letters</i> , 2016, 179, 61-64.	1.3	76
9	Additive manufacturing of thermoplastic matrix composites using fused deposition modeling: A comparison of two reinforcements. <i>Journal of Composite Materials</i> , 2017, 51, 3733-3742.	1.2	62
10	A mechanistic ultrasonic vibration amplitude model during rotary ultrasonic machining of CFRP composites. <i>Ultrasonics</i> , 2017, 76, 44-51.	2.1	62
11	Ultrasonic vibration-assisted laser engineered net shaping of Inconel 718 parts: Effects of ultrasonic frequency on microstructural and mechanical properties. <i>Journal of Materials Processing Technology</i> , 2020, 276, 116395.	3.1	62
12	Study of material removal mechanisms in grinding of C/SiC composites via single-abrasive scratch tests. <i>Ceramics International</i> , 2019, 45, 4729-4738.	2.3	59
13	Surface grinding of CFRP composites with rotary ultrasonic machining: a mechanistic model on cutting force in the feed direction. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 92, 1217-1229.	1.5	58
14	Laser engineered net shaping of quasi-continuous network microstructural TiB reinforced titanium matrix bulk composites: Microstructure and wear performance. <i>Optics and Laser Technology</i> , 2018, 99, 174-183.	2.2	58
15	Additive manufacturing of biodegradable iron-based particle reinforced polylactic acid composite scaffolds for tissue engineering. <i>Journal of Materials Processing Technology</i> , 2021, 289, 116952.	3.1	52
16	In-situ ultrafine three-dimensional quasi-continuous network microstructural TiB reinforced titanium matrix composites fabrication using laser engineered net shaping. <i>Materials Letters</i> , 2017, 195, 116-119.	1.3	50
17	3D printed agar/ calcium alginate hydrogels with high shape fidelity and tailorable mechanical properties. <i>Polymer</i> , 2021, 214, 123238.	1.8	44
18	Ultrasonic Vibration-Assisted Laser Engineered Net Shaping of Inconel 718 Parts: A Feasibility Study. <i>Procedia Manufacturing</i> , 2017, 10, 771-778.	1.9	41

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19	Investigation of Energy Requirements and Environmental Performance for Additive Manufacturing Processes. Sustainability, 2018, 10, 3606.	1.6	38
20	Surface grinding of CFRP composites using rotary ultrasonic machining: a comparison of workpiece machining orientations. International Journal of Advanced Manufacturing Technology, 2018, 95, 2917-2930.	1.5	34
21	A study on the effects of machining variables in surface grinding of CFRP composites using rotary ultrasonic machining. International Journal of Advanced Manufacturing Technology, 2018, 95, 3651-3663.	1.5	33
22	Scratching-induced surface characteristics and material removal mechanisms in rotary ultrasonic surface machining of CFRP. Ultrasonics, 2019, 97, 19-28.	2.1	33
23	Ultrasonic Vibration-Assisted Laser Engineered Net Shaping of Inconel 718 Parts: Microstructural and Mechanical Characterization. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	1.3	32
24	Rotary ultrasonic machining of carbon fiber reinforced plastic composites: a study on fiber material removal mechanism through single-grain scratching. International Journal of Advanced Manufacturing Technology, 2019, 103, 1095-1104.	1.5	30
25	Ultrasensitive Wearable Strain Sensors of 3D Printing Tough and Conductive Hydrogels. Polymers, 2019, 11, 1873.	2.0	30
26	Fused Filament Fabrication of Biodegradable PLA/316L Composite Scaffolds: Effects of Metal Particle Content. Procedia Manufacturing, 2020, 48, 755-762.	1.9	29
27	Surface grinding of carbon fiber-reinforced plastic composites using rotary ultrasonic machining: Effects of tool variables. Advances in Mechanical Engineering, 2016, 8, 168781401667028.	0.8	28
28	Laser deposition-additive manufacturing of in situ TiB reinforced titanium matrix composites: TiB growth and part performance. International Journal of Advanced Manufacturing Technology, 2017, 93, 3409-3418.	1.5	27
29	Rotary Ultrasonic Surface Machining of CFRP Composites: A Comparison with Conventional Surface Grinding. Procedia Manufacturing, 2017, 10, 557-567.	1.9	26
30	Energy Consumption and Saving Analysis for Laser Engineered Net Shaping of Metal Powders. Energies, 2016, 9, 763.	1.6	25
31	Overhang structure and accuracy in laser engineered net shaping of Fe-Cr steel. Optics and Laser Technology, 2018, 106, 357-365.	2.2	25
32	Edge trimming of carbon fiber-reinforced plastic composites using rotary ultrasonic machining: effects of tool orientations. International Journal of Advanced Manufacturing Technology, 2018, 98, 1641-1653.	1.5	24
33	Microstructure and mechanical property of TiB reinforced Ti matrix composites fabricated by ultrasonic vibration-assisted laser engineered net shaping. Rapid Prototyping Journal, 2019, 25, 581-591.	1.6	22
34	Effects of deposition variables on molten pool temperature during laser engineered net shaping of Inconel 718 superalloy. International Journal of Advanced Manufacturing Technology, 2019, 102, 969-976.	1.5	22
35	Energy-aware production scheduling for additive manufacturing. Journal of Cleaner Production, 2021, 278, 123183.	4.6	22
36	Fiber matrix impregnation behavior during additive manufacturing of continuous carbon fiber reinforced polylactic acid composites. Additive Manufacturing, 2021, 37, 101661.	1.7	17

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37	Machinability of Fibre-Reinforced Plastics. , 2015, , .		17
38	High-cycle fatigue properties of curved-surface AlSi10Mg parts fabricated by powder bed fusion additive manufacturing. Rapid Prototyping Journal, 2022, 28, 1346-1360.	1.6	17
39	A mechanistic model for tensile property of continuous carbon fiber reinforced plastic composites built by fused filament fabrication. Additive Manufacturing, 2020, 32, 101102.	1.7	16
40	Edge surface grinding of CFRP composites using rotary ultrasonic machining: comparison of two machining methods. International Journal of Advanced Manufacturing Technology, 2019, 100, 3237-3248.	1.5	14
41	Geometrical, microstructural, and mechanical properties of curved-surface AlSi10Mg parts fabricated by powder bed fusion additive manufacturing. Materials and Design, 2021, 198, 109360.	3.3	14
42	Feasibility Exploration of Superalloys for AISI 4140 Steel Repairing using Laser Engineered Net Shaping. Procedia Manufacturing, 2017, 10, 912-922.	1.9	13
43	Laser Engineered Net Shaping of Commercially Pure Titanium: Effects of Fabricating Variables. , 2016, , .		12
44	Chip morphology and surface roughness in high-speed milling of nickel-based superalloy Inconel 718. International Journal of Machining and Machinability of Materials, 2014, 15, 285.	0.1	11
45	Investigating pellet charring and temperature in ultrasonic vibration-assisted pelleting of wheat straw for cellulosic biofuel manufacturing. Renewable Energy, 2016, 92, 312-320.	4.3	11
46	Modeling of dynamic milling forces considering the interlaminar effect during milling multidirectional CFRP laminate. Journal of Reinforced Plastics and Composites, 2021, 40, 437-449.	1.6	11
47	Ultrasonic Frequency Effects on the Melt Pool Formation, Porosity, and Thermal-Dependent Property of Inconel 718 Fabricated by Ultrasonic Vibration-Assisted Directed Energy Deposition. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	1.3	9
48	Surface grinding of CFRP composites using rotary ultrasonic machining: design of experiment on cutting force, torque and surface roughness. International Journal of Manufacturing Research, 2017, 12, 461.	0.1	8
49	A novel printing strategy in additive manufacturing of continuous carbon fiber reinforced plastic composites. Manufacturing Letters, 2021, 27, 72-77.	1.1	8
50	Additive Manufacturing of CFRP Composites Using Fused Deposition Modeling: Effects of Process Parameters. , 2016, , .		7
51	Build Orientation Effect on Geometric Performance of Curved-Surface 316L Stainless Steel Parts Fabricated by Selective Laser Melting. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	1.3	7
52	Rotary Ultrasonic Machining of CFRP: Design of Experiment With a Cutting Force Model. , 2015, , .		6
53	Surface Grinding of Optical BK7/K9 Glass Using Rotary Ultrasonic Machining: An Experimental Study. , 2017, , .		5
54	Surface Grinding of CFRP Composites Using Rotary Ultrasonic Machining: Effects of Ultrasonic Power. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
55	Non-planar polymer-based flexible electronics fabricated by a four-axis additive manufacturing process. <i>Materials Letters</i> , 2021, 294, 129748.	1.3	5
56	Edge Trimming of CFRP Composites Using Rotary Ultrasonic Machining: Effects of Ultrasonic Vibration. , 2018, , .		4
57	Selective Laser Melting of Curved Surface Metal Parts: A Fundamental Study on Surface Finish and Dimensional Accuracy. , 2019, , .		2
58	Surface Grinding of ZTA Parts Fabricated by Laser Engineered Net Shaping Process: Effects of ZrO2 Content and Ultrasonic Vibration. , 2018, , .		0
59	Effects of Build Orientation on Mechanical Properties of Curved-Surface AlSi10Mg Alloy Fabricated by Powder Bed Fusion Additive Manufacturing. , 2020, , .		0