

Yucan Fu

List of Publications by Year in descending order

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58
papers

1,316
citations

394421

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377865

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58
docs citations

58
times ranked

834
citing authors

#	ARTICLE	IF	CITATIONS
1	An Augmented Reality-Based System for Ultrasonically Measuring the Thickness of Thin-Walled Parts. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	1
2	Thermal performance analysis of axial-rotating oscillating heat pipe and its prediction model based on grey system theory. Thermal Science and Engineering Progress, 2022, 29, 101210.	2.7	3
3	Collision-free path planning for efficient inspection of free-form surface by using a trigger probe. International Journal of Advanced Manufacturing Technology, 2022, 120, 2183-2200.	3.0	3
4	CBN grain wear during eco-benign grinding of nickel-based superalloy with oscillating heat pipe abrasive wheel. Ceramics International, 2022, 48, 9692-9701.	4.8	11
5	Holistic sustainability assessment of novel oscillating-heat-pipe grinding-wheel in Earth-friendly abrasive machining. Journal of Cleaner Production, 2022, 352, 131486.	9.3	11
6	Thermal Management of Bone Drilling Based on Rotating Heat Pipe. Energies, 2022, 15, 35.	3.1	7
7	A study on thermal performance of revolving heat pipe grinding wheel. Applied Thermal Engineering, 2021, 182, 116065.	6.0	21
8	Investigation on formation mechanism of the burrs during abrasive reaming based on the single-particle abrasive micro-cutting behavior. International Journal of Advanced Manufacturing Technology, 2021, 113, 907-921.	3.0	2
9	Heat Transfer Characteristics outside the Condenser of a Rotating Heat Pipe Grinding Wheel with a Lateral Air Impinging Jet. Journal of Thermal Science, 2021, 30, 493-503.	1.9	5
10	Surface quality and geometric accuracy control of fuel nozzle single-pass honing. International Journal of Advanced Manufacturing Technology, 2021, 114, 3325-3336.	3.0	3
11	Development of a Novel System for Adaptive Machining of Near-Net-Shape Components. Advances in Transdisciplinary Engineering, 2021, , .	0.1	0
12	Error Modeling and Path Planning for Freeform Surfaces by Laser Triangulation On-Machine Measurement. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	10
13	Predicting heat transfer of oscillating heat pipes for machining processes based on extreme gradient boosting algorithm. Applied Thermal Engineering, 2020, 164, 114521.	6.0	49
14	Start-up timing behavior of single-loop oscillating heat pipes based on the second-order dynamic model. International Journal of Heat and Mass Transfer, 2020, 147, 118994.	4.8	13
15	Heat Transfer Performance of an Axially Rotating Heat Pipe for Cooling of Grinding. Energies, 2020, 13, 5745.	3.1	3
16	Profile and thickness constrained adaptive localization for manufacturing curved thin-walled parts based on on-machine measurement. International Journal of Advanced Manufacturing Technology, 2020, 110, 113-123.	3.0	5
17	Measurement-Based Modal Analysis and Stability Prediction on Turn-Milling of Hollow Turbine Blade. Shock and Vibration, 2020, 2020, 1-9.	0.6	5
18	Heat Transport Capacity of an Axial-Rotating Single-Loop Oscillating Heat Pipe for Abrasive-Milling Tools. Energies, 2020, 13, 2145.	3.1	11

#	ARTICLE	IF	CITATIONS
19	Numerical Analysis on Temperature Field of Grinding Ti-6Al-4V Titanium Alloy by Oscillating Heat Pipe Grinding Wheel. <i>Metals</i> , 2020, 10, 670.	2.3	11
20	Profile grinding of DZ125 nickel-based superalloy: Grinding heat, temperature field, and surface quality. <i>Journal of Manufacturing Processes</i> , 2020, 57, 10-22.	5.9	39
21	A framework for accuracy enhancement in milling thin-walled narrow-vane turbine impeller of NiAl-based superalloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 3925-3938.	3.0	7
22	Axial rotating heat-pipe grinding wheel for eco-friendly benign machining: A novel method for dry profile-grinding of Ti-6Al-4V alloy. <i>Journal of Manufacturing Processes</i> , 2020, 56, 216-227.	5.9	15
23	A hybrid approach for measurement thickness of complex structural parts using ultrasonic inspection and on-machine probing. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 4777-4785.	3.0	16
24	Micro-fracture variation and grinding performance of PCBN superabrasive grains in high-speed grinding. <i>International Journal of Mechanical Sciences</i> , 2019, 160, 15-25.	6.7	13
25	Feasibility of Ultrasonic Vibration Assisted Grinding for Carbon Fiber Reinforced Polymer with Monolayer Brazed Grinding Tools. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 1083-1094.	2.2	24
26	A predictive model on surface roughness during internal traverse grinding of small holes. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 2069-2077.	3.0	13
27	Experimental investigation of thermal performance of the oscillating heat pipe for the grinding wheel. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 911-923.	4.8	49
28	Grindability evaluation and tool wear during grinding of Ti2AlNb intermetallics. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 1441-1450.	3.0	31
29	Deformation analysis and error prediction in machining of thin-walled honeycomb-core sandwich structural parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 3875-3886.	3.0	8
30	An investigation on heat transport capability of an axial rotating heating pipe abrasive-milling tool for profile dry abrasive milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 4215-4222.	3.0	3
31	Wear behavior of monolayer-brazed CBN wheels with small diameter during internal traverse grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 1221-1228.	3.0	6
32	A review on metallic porous materials: pore formation, mechanical properties, and their applications. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2641-2659.	3.0	93
33	Experimental investigation of cooling characteristics in wet grinding using heat pipe grinding wheel. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 621-627.	3.0	9
34	Understanding the temperature distribution and influencing factors during high-frequency induction brazing of CBN super-abrasive grains. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 1075-1087.	3.0	7
35	Experimental studies on matching performance of grinding and vibration parameters in ultrasonic assisted grinding of SiC ceramics. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 2527-2535.	3.0	43
36	Study on surface/subsurface breakage in ultrasonic assisted grinding of C/SiC composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 3095-3105.	3.0	70

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37	Experimental investigation on high-efficiency grinding of Inconel 718 with heat pipe grinding wheel. <i>Machining Science and Technology</i> , 2017, 21, 86-102.	2.5	9
38	Study on heat transfer of a rotating heat pipe cooling system in dry abrasive-milling. <i>Applied Thermal Engineering</i> , 2017, 115, 736-743.	6.0	34
39	Influence of grain wear on material removal behavior during grinding nickel-based superalloy with a single diamond grain. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 113, 49-58.	13.4	128
40	Mathematical modeling and experimental verification of a novel single-actuated ultrasonic elliptical vibrator. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401774541.	1.6	9
41	Optimization for internal traverse grinding of valves based on wheel deflection. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 92, 1105-1112.	3.0	21
42	Influence of graphite addition on bonding properties of abrasive layer of metal-bonded CBN wheel. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 2675-2684.	3.0	15
43	Review on monolayer CBN superabrasive wheels for grinding metallic materials. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 109-134.	5.3	116
44	A novel single driven ultrasonic elliptical vibration cutting device. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 3289-3300.	3.0	30
45	Formation mechanism and geometry characteristics of exit-direction burrs generated in surface grinding of Ti-6Al-4V titanium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 2299-2313.	3.0	15
46	Investigation on Heat Transfer Performance of Heat Pipe Grinding Wheel in Dry Grinding. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016, 138, .	2.2	8
47	Comparative investigation on high-speed grinding of TiCp/TiAl ₆ 4V particulate reinforced titanium matrix composites with single-layer electroplated and brazed CBN wheels. <i>Chinese Journal of Aeronautics</i> , 2016, 29, 1414-1424.	5.3	57
48	An investigation on high-efficiency profile grinding of directional solidified nickel-based superalloys DZ125 with electroplated CBN wheel. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 1-11.	3.0	80
49	Behavior and quantitative characterization of CBN wheel wear in high-speed grinding of nickel-based superalloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 3545-3555.	3.0	19
50	Study on coolant-induced hydrodynamic pressure in contact zone while deep grinding with CBN wheels. <i>Machining Science and Technology</i> , 2016, 20, 547-566.	2.5	2
51	Development of a novel supersonic grinding machine tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 2039-2052.	3.0	3
52	Investigation of a heat pipe cooling system in high-efficiency grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 833-842.	3.0	16
53	Wear of diamond grinding wheel in ultrasonic vibration-assisted grinding of silicon carbide. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 71, 1929-1938.	3.0	64
54	Tool wear prediction of machining hydrogenated titanium alloy Ti6Al4V with uncoated carbide tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 68, 673-682.	3.0	30

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55	Grinding of brittle materials with brazed diamond grinding wheel. International Journal of Advanced Manufacturing Technology, 2013, 67, 2845-2852.	3.0	25
56	Influence of TiX (X=B2 or N) addition on the interfacial microstructure features of CBN grains and AgCuTi composite filler. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 579-582.	1.0	3
57	Effects of heating temperature on interfacial microstructure and compressive strength of brazed CBN-AlN composite abrasive grits. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 952-956.	1.0	9
58	Effects of Ga on mechanical properties and microstructure of Cu ₆₀ Sn ₄₀ Ti filler. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100203.	1.8	3