

# Yucan Fu

## List of Publications by Year in descending order

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58  
papers

1,316  
citations

394421

19  
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377865

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58  
docs citations

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times ranked

834  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Review on monolayer CBN superabrasive wheels for grinding metallic materials. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 109-134.	5.3	116
3	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
4	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
5	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
6	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
7	Comparative investigation on high-speed grinding of TiCp/TiAl <sub>6</sub> 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
8	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
9	Predicting heat transfer of oscillating heat pipes for machining processes based on extreme gradient boosting algorithm. <i>Applied Thermal Engineering</i> , 2020, 164, 114521.	6.0	49
10	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
11	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
12	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
13	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
14	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
15	A novel single driven ultrasonic elliptical vibration cutting device. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 3289-3300.	3.0	30
16	Grinding of brittle materials with brazed diamond grinding wheel. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 2845-2852.	3.0	25
17	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
18	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

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19	A study on thermal performance of revolving heat pipe grinding wheel. <i>Applied Thermal Engineering</i> , 2021, 182, 116065.	6.0	21
20	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
21	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
22	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
23	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
24	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
25	Axial rotating heat-pipe grinding wheel for eco-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
26	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
27	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
28	Start-up timing behavior of single-loop oscillating heat pipes based on the second-order dynamic model. <i>International Journal of Heat and Mass Transfer</i> , 2020, 147, 118994.	4.8	13
29	Heat Transport Capacity of an Axial-Rotating Single-Loop Oscillating Heat Pipe for Abrasive-Milling Tools. <i>Energies</i> , 2020, 13, 2145.	3.1	11
30	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
31	CBN grain wear during eco-benign grinding of nickel-based superalloy with oscillating heat pipe abrasive wheel. <i>Ceramics International</i> , 2022, 48, 9692-9701.	4.8	11
32	Holistic sustainability assessment of novel oscillating-heat-pipe grinding-wheel in Earth-friendly abrasive machining. <i>Journal of Cleaner Production</i> , 2022, 352, 131486.	9.3	11
33	Error Modeling and Path Planning for Freeform Surfaces by Laser Triangulation On-Machine Measurement. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	4.7	10
34	Effects of heating temperature on interfacial microstructure and compressive strength of brazed CBN-AlN composite abrasive grits. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 952-956.	1.0	9
35	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
36	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

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37	Experimental investigation of cooling characteristics in wet grinding using heat pipe grinding wheel. International Journal of Advanced Manufacturing Technology, 2018, 97, 621-627.	3.0	9
38	Investigation on Heat Transfer Performance of Heat Pipe Grinding Wheel in Dry Grinding. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	2.2	8
39	Deformation analysis and error prediction in machining of thin-walled honeycomb-core sandwich structural parts. International Journal of Advanced Manufacturing Technology, 2018, 95, 3875-3886.	3.0	8
40	Understanding the temperature distribution and influencing factors during high-frequency induction brazing of CBN super-abrasive grains. International Journal of Advanced Manufacturing Technology, 2017, 88, 1075-1087.	3.0	7
41	A framework for accuracy enhancement in milling thin-walled narrow-vane turbine impeller of NiAl-based superalloy. International Journal of Advanced Manufacturing Technology, 2020, 108, 3925-3938.	3.0	7
42	Thermal Management of Bone Drilling Based on Rotating Heat Pipe. Energies, 2022, 15, 35.	3.1	7
43	Wear behavior of monolayer-brazed CBN wheels with small diameter during internal traverse grinding. International Journal of Advanced Manufacturing Technology, 2018, 94, 1221-1228.	3.0	6
44	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
45	Measurement-Based Modal Analysis and Stability Prediction on Turn-Milling of Hollow Turbine Blade. Shock and Vibration, 2020, 2020, 1-9.	0.6	5
46	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
47	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
48	Development of a novel supersonic grinding machine tool. International Journal of Advanced Manufacturing Technology, 2015, 81, 2039-2052.	3.0	3
49	An investigation on heat transport capability of an axial rotating heating pipe abrasive-milling tool for profile dry abrasive milling. International Journal of Advanced Manufacturing Technology, 2018, 96, 4215-4222.	3.0	3
50	Heat Transfer Performance of an Axially Rotating Heat Pipe for Cooling of Grinding. Energies, 2020, 13, 5745.	3.1	3
51	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
52	Effects of Ga on mechanical properties and microstructure of Cuâ€³Snâ€³Ti filler. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100203.	1.8	3
53	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
54	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

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55	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
56	Investigation on formation mechanism of the burrs during abrasive reaming based on the single-particle abrasive micro-cutting behavior. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 907-921.	3.0	2
57	An Augmented Reality-Based System for Ultrasonically Measuring the Thickness of Thin-Walled Parts. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-9.	4.7	1
58	Development of a Novel System for Adaptive Machining of Near-Net-Shape Components. <i>Advances in Transdisciplinary Engineering</i> , 2021, , .	0.1	0