

Junshuai Zhao

List of Publications by Year in descending order

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57
papers

640
citations

687363

13
h-index

713466

21
g-index

57
all docs

57
docs citations

57
times ranked

319
citing authors

#	ARTICLE	IF	CITATIONS
1	Chip formation and its effects on cutting force, tool temperature, tool stress, and cutting edge wear in high- and ultra-high-speed milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 55-65.	3.0	59
2	Multiobjective optimization of processing parameters in longitudinal-torsion ultrasonic assisted milling of Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 4345-4356.	3.0	31
3	Investigation of Cutting Force in Longitudinal-Torsional Ultrasonic-Assisted Milling of Ti-6Al-4V. <i>Materials</i> , 2019, 12, 1955.	2.9	30
4	Chatter modeling and stability lobes predicting for non-uniform helix tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 251-266.	3.0	27
5	The effects of thermo-mechanical load on the vibrational characteristics of ultrasonic vibration system. <i>Ultrasonics</i> , 2019, 98, 7-14.	3.9	26
6	Ultrasonic Vibration Assisted Cutting of Nomex Honeycomb Core Materials. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 27-36.	2.2	26
7	Fractal characterization of surface microtexture of Ti6Al4V subjected to ultrasonic vibration assisted milling. <i>Ultrasonics</i> , 2020, 102, 106052.	3.9	26
8	Finite element analysis of ultrasonic assisted milling of SiCp/Al composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 3477-3488.	3.0	25
9	Effect of machining parameters on the stability of separated and unseparated ultrasonic vibration of feed direction assisted milling. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 851-858.	1.5	23
10	An Investigation of Surface Roughness in Ultrasonic Assisted Dry Grinding of 12Cr2Ni4A with Large Diameter Grinding Wheel. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 929-936.	2.2	22
11	Design and experimental investigation on longitudinal-torsional composite horn considering the incident angle of ultrasonic wave. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 325-341.	3.0	20
12	Surface quality prediction model of nano-composite ceramics in ultrasonic vibration-assisted ELID mirror grinding. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 1877-1884.	1.5	17
13	Experiment and simulation of the effect of ultrasonic rolling on the surface properties of Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 1893-1900.	3.0	17
14	Ultrasonic vibration-assisted grinding of blind holes and internal threads in cemented carbides. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 1357-1367.	3.0	15
15	Study on thrust force of ultrasonic-assisted vibration micro-hole drilling of titanium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 3399-3413.	3.0	15
16	Effect of ultrasonic elliptical vibration turning on the microscopic morphology of aluminum alloy surface. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 1397-1407.	3.0	14
17	Study on the characteristics of zirconia ceramic in three-dimensional ultrasonic vibration-assisted ELID internal grinding. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 333-344.	1.5	14
18	An investigation on surface functional parameters in ultrasonic-assisted grinding of soft steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 2697-2702.	3.0	13

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19	Microstructure of High-Performance Aluminum Alloy Surface Processed by the Single-Excitation Same-Frequency Longitudinal-Torsional Coupled Ultrasonic Vibration Milling. <i>Materials</i> , 2018, 11, 1975.	2.9	12
20	Study on prediction of three-dimensional surface roughness of nano-ZrO ₂ ceramics under two-dimensional ultrasonic-assisted grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 2623-2638.	3.0	12
21	Effect of double-excitation ultrasonic elliptical vibration turning trajectory on surface morphology. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 1401-1414.	3.0	11
22	System design and experimental research on the tangential ultrasonic vibration-assisted grinding gear. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 597-610.	3.0	11
23	Influence of force load on the stability of ultrasonic longitudinal-torsional composite drilling system. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 891-905.	3.0	11
24	Design, simulation, and adjustment of the longitudinal-torsional composite integrated ultrasonic variable amplitude system. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401880473.	1.6	9
25	Study on surface residual stress of hardened 12Cr2Ni4A alloy steel by ultrasonic vibration-assisted ELID grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 641-649.	3.0	9
26	Study on the edge defects of high volume fraction 70% SiCp/Al composites in ultrasonic-assisted milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 122, 485-498.	3.0	9
27	Formation characteristics of the chip and damage equivalent stress of the cutting tool in high-speed intermittent cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2113-2123.	3.0	8
28	Experimental research on laser-ultrasonic vibration synergic dressing of diamond wheel. <i>Journal of Materials Processing Technology</i> , 2019, 269, 182-189.	6.3	8
29	Effect of Ultrasonic Vibration Tensile on the Mechanical Properties of High-Volume Fraction SiCp/Al Composite. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020, 21, 2051-2066.	2.2	8
30	Surface formation and damage mechanisms of nano-ZrO ₂ ceramics under axial ultrasonic-assisted grinding. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 1187-1197.	1.5	8
31	Finite Element and Experimental Analysis of Ultrasonic Vibration Milling of High-Volume Fraction SiCp/Al Composites. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021, 22, 1777-1789.	2.2	8
32	A Novel Updated Full-Discretization Method for Prediction of Milling Stability. <i>Micromachines</i> , 2022, 13, 160.	2.9	8
33	Study of Material Removal Behavior During Laser-Assisted Ultrasonic Dressing of Diamond Wheel. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 7, 173-184.	4.9	7
34	Analytical modeling of grinding force and experimental study on ultrasonic-assisted forming grinding gear. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 3657-3673.	3.0	7
35	Experimental study on surface residual stress of titanium alloy curved thin-walled parts by ultrasonic longitudinal-torsional composite milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 1021.	3.0	7
36	Ultrasonic assisted machining of gears with enhanced fatigue resistance: A comprehensive review. <i>Advances in Mechanical Engineering</i> , 2022, 14, 168781322210828.	1.6	7

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37	Theoretical modeling and experiments of oxide layer contact stiffness for ultrasonic vibration-assisted electrolytic in-process dressing grinding. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401770136.	1.6	6
38	Finite Element Simulation Study of Ultrasonic Vibration-Assisted Tensile High-Volume Fraction SiCp/Al Composite. <i>Materials</i> , 2019, 12, 3841.	2.9	6
39	Control model and the experimental study on the ultrasonic vibration-assisted electrolytic in-process dressing internal grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 92, 1277-1289.	3.0	5
40	A review of high-speed intermittent cutting of hardened steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 3837-3846.	3.0	5
41	Surface quality in axial ultrasound plunging-type grinding of bearing internal raceway. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 4715-4730.	3.0	5
42	Analytical and experimental investigation on cutting force in longitudinal-torsional coupled rotary ultrasonic machining zirconia ceramics. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 4051-4064.	3.0	5
43	Material removal rate for nanocomposite ceramics in ultrasound-aided electrolytic in process dressing. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 3987-3998.	2.1	4
44	Process simulation for five-axis grinding machining using an analytical method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 2965-2975.	2.1	4
45	Mechanism of online dressing for micro-diamond grinding wheel during the ultrasound-aided electrolytic in-process dressing grinding. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2020, 234, 263-274.	2.5	4
46	A separate-edge force coefficients calibration method using specific condition for cutters with variable helix and pitch angles combining the runout effect. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 1737-1749.	3.0	3
47	Surface Properties of Ultrasonic Vibration-Assisted ELID Grinding ZTA Ceramics. <i>Materials</i> , 2022, 15, 636.	2.9	3
48	Modeling and experimental analysis of cutting force in longitudinal-torsional ultrasonic-assisted milling of titanium. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401983510.	1.6	2
49	Design and experimental study of the rolling-enhanced acoustic system for gear tooth surface. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 6489-6501.	3.0	2
50	Experimental study on the effect of tool parameters on the vibrational characteristic of ultrasonic vibration-assisted drilling system. <i>Machining Science and Technology</i> , 2022, 26, 72-94.	2.5	2
51	Experimental Research on CBN Grinding Wheel Mechanical Dressing with Ultrasonic Vibration Assistance. <i>Advanced Materials Research</i> , 0, 154-155, 573-577.	0.3	1
52	Study on fracture behaviors of nanocomposite ceramics under a high cycle stress. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401665773.	1.6	1
53	Cavitation Effect in Ultrasonic-Assisted Electrolytic In-Process Dressing Grinding of Nanocomposite Ceramics. <i>Materials</i> , 2021, 14, 5611.	2.9	1
54	A novel design of ultrasonic vibration system: asymmetric structure. <i>Smart Materials and Structures</i> , 0, , .	3.5	1

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55	Spatial modeling and simulation of evaluation of the quality of grinding surface of engineering ceramics. , 2011, , .		0
56	Grinding Parameter Optimization of Ultrasound-Aided Electrolytic in Process Dressing for Finishing Nanocomposite Ceramics. Mathematical Problems in Engineering, 2016, 2016, 1-13.	1.1	0
57	Design And Experimental Investigation On Vibration System Of Ultrasonic Vibration-Assisted Elid Internal Grinding Zta Ceramics. , 2021, , .		0