Junshuai Zhao

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Study on surface residual stress of hardened 12Cr2Ni4A alloy steel by ultrasonic vibration-assisted ELID grinding. International Journal of Advanced Manufacturing Technology, 2022, 118, 641-649.	3.0	9
2	Surface Properties of Ultrasonic Vibration-Assisted ELID Grinding ZTA Ceramics. Materials, 2022, 15, 636.	2.9	3
3	Design and experimental study of the rolling-enhanced acoustic system for gear tooth surface. International Journal of Advanced Manufacturing Technology, 2022, 119, 6489-6501.	3.0	2
4	Study on the edge defects of high volume fraction 70% SiCp/Al composites in ultrasonic-assisted milling. International Journal of Advanced Manufacturing Technology, 2022, 122, 485-498.	3.0	9
5	A Novel Updated Full-Discretization Method for Prediction of Milling Stability. Micromachines, 2022, 13, 160.	2.9	8
6	Analytical and experimental investigation on cutting force in longitudinal-torsional coupled rotary ultrasonic machining zirconia ceramics. International Journal of Advanced Manufacturing Technology, 2022, 120, 4051-4064.	3.0	5
7	Experimental study on the effect of tool parameters on the vibrational characteristic of ultrasonic vibration-assisted drilling system. Machining Science and Technology, 2022, 26, 72-94.	2.5	2
8	Ultrasonic assisted machining of gears with enhanced fatigue resistance: A comprehensive review. Advances in Mechanical Engineering, 2022, 14, 168781322210828.	1.6	7
9	Study on prediction of three-dimensional surface roughness of nano-ZrO2 ceramics under two-dimensional ultrasonic-assisted grinding. International Journal of Advanced Manufacturing Technology, 2021, 112, 2623-2638.	3.0	12
10	Study on thrust force of ultrasonic-assisted vibration micro-hole drilling of titanium alloy. International Journal of Advanced Manufacturing Technology, 2021, 112, 3399-3413.	3.0	15
11	Effect of double-excitation ultrasonic elliptical vibration turning trajectory on surface morphology. International Journal of Advanced Manufacturing Technology, 2021, 113, 1401-1414.	3.0	11
12	Surface formation and damage mechanisms of nano-ZrO2 ceramics under axial ultrasonic-assisted grinding. Journal of Mechanical Science and Technology, 2021, 35, 1187-1197.	1.5	8
13	Design And Experimental Investigation On Vibration System Of Ultrasonic Vibration-Assisted Elid Internal Grinding Zta Ceramics. , 2021, , .		0
14	Analytical modeling of grinding force and experimental study on ultrasonic-assisted forming grinding gear. International Journal of Advanced Manufacturing Technology, 2021, 114, 3657-3673.	3.0	7
15	Experimental study on surface residual stress of titanium alloy curved thin-walled parts by ultrasonic longitudinal-torsional composite milling. International Journal of Advanced Manufacturing Technology, 2021, 115, 1021.	3.0	7
16	System design and experimental research on the tangential ultrasonic vibration-assisted grinding gear. International Journal of Advanced Manufacturing Technology, 2021, 116, 597-610.	3.0	11
17	Finite Element and Experimental Analysis of Ultrasonic Vibration Milling of High-Volume Fraction SiCp/Al Composites. International Journal of Precision Engineering and Manufacturing, 2021, 22, 1777-1789.	2.2	8
18	Cavitation Effect in Ultrasonic-Assisted Electrolytic In-Process Dressing Grinding of Nanocomposite Ceramics. Materials, 2021, 14, 5611.	2.9	1

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19	Study of Material Removal Behavior During Laser-Assisted Ultrasonic Dressing of Diamond Wheel. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 173-184.	4.9	7
20	Fractal characterization of surface microtexture of Ti6Al4V subjected to ultrasonic vibration assisted milling. Ultrasonics, 2020, 102, 106052.	3.9	26
21	Experiment and simulation of the effect of ultrasonic rolling on the surface properties of Ti-6Al-4V. International Journal of Advanced Manufacturing Technology, 2020, 106, 1893-1900.	3.0	17
22	Effect of ultrasonic elliptical vibration turning on the microscopic morphology of aluminum alloy surface. International Journal of Advanced Manufacturing Technology, 2020, 106, 1397-1407.	3.0	14
23	Surface quality in axial ultrasound plunging-type grinding of bearing internal raceway. International Journal of Advanced Manufacturing Technology, 2020, 106, 4715-4730.	3.0	5
24	Study on the characteristics of zirconia ceramic in three-dimensional ultrasonic vibration-assisted ELID internal grinding. Journal of Mechanical Science and Technology, 2020, 34, 333-344.	1.5	14
25	Effect of Ultrasonic Vibration Tensile on the Mechanical Properties of High-Volume Fraction SiCp/Al Composite. International Journal of Precision Engineering and Manufacturing, 2020, 21, 2051-2066.	2.2	8
26	Mechanism of online dressing for micro-diamond grinding wheel during the ultrasound-aided electrolytic in-process dressing grinding. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2020, 234, 263-274.	2.5	4
27	Influence of force load on the stability of ultrasonic longitudinalâ€“torsional composite drilling system. International Journal of Advanced Manufacturing Technology, 2020, 106, 891-905.	3.0	11
28	Design and experimental investigation on longitudinal-torsional composite horn considering the incident angle of ultrasonic wave. International Journal of Advanced Manufacturing Technology, 2019, 105, 325-341.	3.0	20
29	Ultrasonic vibration-assisted grinding of blind holes and internal threads in cemented carbides. International Journal of Advanced Manufacturing Technology, 2019, 104, 1357-1367.	3.0	15
30	Investigation of Cutting Force in Longitudinal-Torsional Ultrasonic-Assisted Milling of Ti-6Al-4V. Materials, 2019, 12, 1955.	2.9	30
31	Finite element analysis of ultrasonic assisted milling of SiCp/Al composites. International Journal of Advanced Manufacturing Technology, 2019, 105, 3477-3488.	3.0	25
32	Experimental research on laser-ultrasonic vibration synergic dressing of diamond wheel. Journal of Materials Processing Technology, 2019, 269, 182-189.	6.3	8
33	The effects of thermo-mechanical load on the vibrational characteristics of ultrasonic vibration system. Ultrasonics, 2019, 98, 7-14.	3.9	26
34	Modeling and experimental analysis of cutting force in longitudinalâ€“torsional ultrasonic-assisted milling of titanium. Advances in Mechanical Engineering, 2019, 11, 168781401983510.	1.6	2
35	Ultrasonic Vibration Assisted Cutting of Nomex Honeycomb Core Materials. International Journal of Precision Engineering and Manufacturing, 2019, 20, 27-36.	2.2	26
36	Finite Element Simulation Study of Ultrasonic Vibration-Assisted Tensile High-Volume Fraction SiCp/Al Composite. Materials, 2019, 12, 3841.	2.9	6

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37	Process simulation for five-axis grinding machining using an analytical method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 2965-2975.	2.1	4
38	Design, simulation, and adjustment of the longitudinalâ€“torsional composite integrated ultrasonic variable amplitude system. Advances in Mechanical Engineering, 2018, 10, 168781401880473.	1.6	9
39	Microstructure of High-Performance Aluminum Alloy Surface Processed by the Single-Excitation Same-Frequency Longitudinalâ€“Torsional Coupled Ultrasonic Vibration Milling. Materials, 2018, 11, 1975.	2.9	12
40	An investigation on surface functional parameters in ultrasonic-assisted grinding of soft steel. International Journal of Advanced Manufacturing Technology, 2018, 97, 2697-2702.	3.0	13
41	An Investigation of Surface Roughness in Ultrasonic Assisted Dry Grinding of 12Cr2Ni4A with Large Diameter Grinding Wheel. International Journal of Precision Engineering and Manufacturing, 2018, 19, 929-936.	2.2	22
42	Effect of machining parameters on the stability of separated and unseparated ultrasonic vibration of feed direction assisted milling. Journal of Mechanical Science and Technology, 2017, 31, 851-858.	1.5	23
43	Surface quality prediction model of nano-composite ceramics in ultrasonic vibration-assisted ELID mirror grinding. Journal of Mechanical Science and Technology, 2017, 31, 1877-1884.	1.5	17
44	Control model and the experimental study on the ultrasonic vibration-assisted electrolytic in-process dressing internal grinding. International Journal of Advanced Manufacturing Technology, 2017, 92, 1277-1289.	3.0	5
45	Formation characteristics of the chip and damage equivalent stress of the cutting tool in high-speed intermittent cutting. International Journal of Advanced Manufacturing Technology, 2017, 91, 2113-2123.	3.0	8
46	Theoretical modeling and experiments of oxide layer contact stiffness for ultrasonic vibrationâ€“assisted electrolytic in-process dressing grinding. Advances in Mechanical Engineering, 2017, 9, 168781401770136.	1.6	6
47	A review of high-speed intermittent cutting of hardened steel. International Journal of Advanced Manufacturing Technology, 2017, 93, 3837-3846.	3.0	5
48	Multiobjective optimization of processing parameters in longitudinal-torsion ultrasonic assisted milling of Ti-6Al-4V. International Journal of Advanced Manufacturing Technology, 2017, 93, 4345-4356.	3.0	31
49	A separate-edge force coefficientsâ€™ calibration method using specific condition for cutters with variable helix and pitch angles combining the runout effect. International Journal of Advanced Manufacturing Technology, 2017, 93, 1737-1749.	3.0	3
50	Material removal rate for nanocomposite ceramics in ultrasound-aided electrolytic in process dressing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 3987-3998.	2.1	4
51	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
52	Study on fracture behaviors of nanocomposite ceramics under a high cycle stress. Advances in Mechanical Engineering, 2016, 8, 168781401665773.	1.6	1
53	Chatter modeling and stability lobes predicting for non-uniform helix tools. International Journal of Advanced Manufacturing Technology, 2016, 87, 251-266.	3.0	27
54	Chip formation and its effects on cutting force, tool temperature, tool stress, and cutting edge wear in high- and ultra-high-speed milling. International Journal of Advanced Manufacturing Technology, 2016, 83, 55-65.	3.0	59

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55	Spatial modeling and simulation of evaluation of the quality of grinding surface of engineering ceramics. , 2011, , .		0
56	Experimental Research on CBN Grinding Wheel Mechanical Dressing with Ultrasonic Vibration Assistance. Advanced Materials Research, 0, 154-155, 573-577.	0.3	1
57	A novel design of ultrasonic vibration system: asymmetric structure. Smart Materials and Structures, 0, , .	3.5	1