

# Ji Zhao

## List of Publications by Year in descending order

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52  
papers

1,313  
citations

623574

14  
h-index

360920

35  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1442  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and analysis of the material removal rate for ultrasonic vibration-assisted polishing of optical glass BK7. International Journal of Advanced Manufacturing Technology, 2022, 118, 627-639.	1.5	8
2	Predictive modeling and experimental study of polishing force for ultrasonic vibration-assisted polishing of K9 optical glass. International Journal of Advanced Manufacturing Technology, 2022, 119, 3119-3139.	1.5	6
3	Modeling virtual abrasive grain based on random ellipsoid tangent plane. International Journal of Advanced Manufacturing Technology, 2021, 113, 2049-2064.	1.5	3
4	Simulation of 3D grinding temperature field by using an improved finite difference method. International Journal of Advanced Manufacturing Technology, 2020, 108, 3871-3884.	1.5	4
5	Modeling and optimization of material removal influenced by sliding velocity in polishing. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 1127-1135.	1.5	7
6	Kinematic simulation of surface grinding process with random cBN grain model. International Journal of Advanced Manufacturing Technology, 2019, 100, 2725-2739.	1.5	14
7	Effect of ultrasonic vibration on polishing monocrystalline silicon: surface quality and material removal rate. International Journal of Advanced Manufacturing Technology, 2019, 103, 2109-2119.	1.5	13
8	Experimental and simulation studies of abrasive particles impacting monocrystalline silicon in suspension thin film flow field of ultrasonic polishing. International Journal of Advanced Manufacturing Technology, 2019, 103, 819-840.	1.5	12
9	Prediction of 3D grinding temperature field based on meshless method considering infinite element. International Journal of Advanced Manufacturing Technology, 2019, 100, 3067-3084.	1.5	9
10	The selection of temperature-sensitivity points based on K-harmonic means clustering and thermal positioning error modeling of machine tools. International Journal of Advanced Manufacturing Technology, 2019, 100, 2333-2348.	1.5	22
11	Ultrasonic strengthening improves tensile mechanical performance of fused deposition modeling 3D printing. International Journal of Advanced Manufacturing Technology, 2018, 96, 2747-2755.	1.5	29
12	Material removal mechanism of two-dimensional ultrasonic vibration assisted polishing Inconel718 nickel-based alloy. International Journal of Advanced Manufacturing Technology, 2018, 96, 657-667.	1.5	26
13	Fast parametric curve interpolation with minimal feedrate fluctuation by cubic B-spline. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1642-1652.	1.5	12
14	Printing parameters and strengthening mechanism of pneumatic injection additive manufacturing with iron powder slurry. International Journal of Advanced Manufacturing Technology, 2018, 94, 3809-3817.	1.5	8
15	Status and Trends of the Large Aperture Space Optical Remote Sensor. , 2018, , .		5
16	Thermal positioning error modeling of machine tools using a bat algorithm-based back propagation neural network. International Journal of Advanced Manufacturing Technology, 2018, 97, 2575-2586.	1.5	33
17	Effect of Ultrasonic Vibration on Mechanical Properties of 3D Printing Non-Crystalline and Semi-Crystalline Polymers. Materials, 2018, 11, 826.	1.3	38
18	Ultra-Precision Machining of a Compound Sinusoidal Grid Surface Based on Slow Tool Servo. Materials, 2018, 11, 1001.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Optimization of Sintering Time and Holding Time for 3D Printing of Fe-Based Metallic Glasses. <i>Metals</i> , 2018, 8, 429.	1.0	4
20	Study about Mechanical Property and Machinability of Polyimide. <i>Polymers</i> , 2018, 10, 173.	2.0	18
21	Investigation into material removal influenced by edge effect in polishing. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 1409-1422.	1.5	6
22	Corrective polishing of freeform optical surfaces in an off-axis three-mirror imaging system. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 2861-2869.	1.5	7
23	A parametric interpolation method with minimal feedrate fluctuation by nonuniform rational basis spline. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 3301-3317.	1.1	5
24	A temperature compensation methodology for piezoelectric based sensor devices. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	14
25	A reconstructed variable regression method for thermal error modeling of machine tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 3673-3684.	1.5	9
26	An iterative feed rate scheduling method with confined high-order constraints in parametric interpolation. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 92, 2001-2015.	1.5	29
27	Influence of Layer Thickness, Raster Angle, Deformation Temperature and Recovery Temperature on the Shape-Memory Effect of 3D-Printed Polylactic Acid Samples. <i>Materials</i> , 2017, 10, 970.	1.3	94
28	Design a flexible surgical instrument for robot-assisted minimally invasive surgery. , 2016, , .		2
29	Development of a novel two-dimensional ultrasonically actuated polishing process. <i>AIP Advances</i> , 2016, 6, .	0.6	11
30	An energy-saving control system for pumping unit based on the SRM. , 2016, , .		0
31	An offline predictive feedrate scheduling method for parametric interpolation considering the constraints in trajectory and drive systems. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 2143-2157.	1.5	22
32	Local material removal model considering the tool posture in deterministic polishing. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 2660-2675.	1.1	9
33	Modelling of the Polished Profile in Computer-Controlled Polishing by a Sub-Aperture Pad. <i>Machining Science and Technology</i> , 2015, 19, 536-558.	1.4	6
34	Comparison and Analysis on Mechanical Property and Machinability about Polyetheretherketone and Carbon-Fibers Reinforced Polyetheretherketone. <i>Materials</i> , 2015, 8, 4118-4130.	1.3	37
35	Influence of Layer Thickness and Raster Angle on the Mechanical Properties of 3D-Printed PEEK and a Comparative Mechanical Study between PEEK and ABS. <i>Materials</i> , 2015, 8, 5834-5846.	1.3	610
36	Finite Element Analysis and Simulation about Microgrinding of SiC. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	1.5	6

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37	An Improved Method for Generating Cutter Points Based on Required Form Accuracy of the Machining Surface. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-8.	0.6	0
38	A Reconstruction Algorithm for Blade Surface Based on Less Measured Points. <i>International Journal of Aerospace Engineering</i> , 2015, 2015, 1-11.	0.5	3
39	Calibration of a parallel mechanism in a serial-parallel polishing machine tool based on genetic algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 27-37.	1.5	42
40	Development of a real-time force-controlled compliant polishing tool system with online tuning neural proportionalâ€“integralâ€“derivative controller. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2015, 229, 440-454.	0.7	3
41	Developing MEMS DC electric current sensor for end-use monitoring of DC power supply: Part V - corresponding relationship between polarization and output voltage. , 2015, , .		2
42	Comparison of mechanical property and machinability for polyetheretherketone and glass fiberâ€“reinforced polyetheretherketone. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401557835.	0.8	6
43	Predictive models of the local and the global polished profiles in deterministic polishing of free-form surfaces. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2014, 228, 868-879.	1.5	13
44	Modeling and analysis of the material removal profile for free abrasive polishing with sub-aperture pad. <i>Journal of Materials Processing Technology</i> , 2014, 214, 285-294.	3.1	34
45	A novel surface self-adapting small mobile robot for free-form surface polishing. , 2010, , .		0
46	Notice of Retraction: Research on the automatic belt grinding system for machining blade with complex surface. , 2010, , .		3
47	Research on polishing path planning and simulation of small mobile robot. , 2009, , .		0
48	A novel surface self-adapting parallel machine tool for blade machining. , 2009, , .		1
49	A Novel Vision Localization Method of Automated Micro-Polishing Robot. <i>Journal of Bionic Engineering</i> , 2009, 6, 46-54.	2.7	8
50	Realization of mobile robot trajectory tracking control based on interpolation. , 2009, , .		1
51	A high-precision fuzzy impedance control algorithm and application in robotic arm. , 2005, , .		3
52	An oblique ultrasonic polishing method by robot for free-form surfaces. <i>International Journal of Machine Tools and Manufacture</i> , 2000, 40, 795-808.	6.2	48