

Xiaoqin Zhou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8536850/publications.pdf>

Version: 2024-02-01

104
papers

1,891
citations

361413

20
h-index

302126

39
g-index

105
all docs

105
docs citations

105
times ranked

1448
citing authors

#	ARTICLE	IF	CITATIONS
1	Diamond turning of freeform surfaces using non-zero rake angle tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 2265-2284.	3.0	2
2	Investigation and simulation based on mesoscopic model of SiCp/Al composites during precision machining: deformation mechanism and surface quality. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 2173-2186.	3.0	11
3	Study on abrasive belt grinding process assisted by ultrasonic elliptic vibration. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 4647-4661.	3.0	4
4	An Ultra Facile Debonding Method to Develop a Superhydrophobic Surface Based on a Polymer Composite Film. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	2
5	Measurement of Thermal Properties and Numerical Simulation of Temperature Distribution in Laser-assisted Machining of Glass-ceramic. <i>Silicon</i> , 2022, 14, 12155-12164.	3.3	5
6	Validity of data extraction in evidence synthesis practice of adverse events: reproducibility study. <i>BMJ, The</i> , 2022, 377, e069155.	6.0	16
7	Achieving smooth motion of stick-slip piezoelectric actuator by means of alternate stepping. <i>Mechanical Systems and Signal Processing</i> , 2022, 181, 109494.	8.0	10
8	Remote sensing image denoising based on improved semi-soft threshold. <i>Signal, Image and Video Processing</i> , 2021, 15, 73-81.	2.7	15
9	Adaptive variational mode decomposition and its application to multi-fault detection using mechanical vibration signals. <i>ISA Transactions</i> , 2021, 111, 360-375.	5.7	70
10	Negative Compressibility in the Monoclinic Octahedron Model Constructed by Hinging Wine-Rack Mechanism. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000389.	1.5	4
11	Negative Compressibility in Hexagonal and Trigonal Models Constructed by Hinging Wine-Rack Mechanism. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000568.	1.5	2
12	Non-resonant 3D Elliptical Vibration Cutting Induced Submicron Grating Coloring. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021, 22, 659-669.	2.2	7
13	The Noise-Reduction Characteristics of Microstructure of Dragonfly Wing Leading Vein. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2970.	2.5	0
14	Utilization of the evidence from studies with no events in meta-analyses of adverse events: an empirical investigation. <i>BMC Medicine</i> , 2021, 19, 141.	5.5	17
15	Design and analysis of an innovative flapping wing micro aerial vehicle with a figure eight wingtip trajectory. <i>Mechanical Sciences</i> , 2021, 12, 603-613.	1.0	6
16	Piezoelectric Energy Harvesting for Flapping Wing Micro Air Vehicle and Flapping Wing Sensing Based on Flexible Polyvinylidene Fluoride. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1166.	2.5	5
17	Two-dimensional vibration actuated polishing of small surfaces by generating random-like Lissajous trajectories. <i>Applied Optics</i> , 2021, 60, 851.	1.8	6
18	Methodological quality for systematic reviews of adverse events with surgical interventions: a cross-sectional survey. <i>BMC Medical Research Methodology</i> , 2021, 21, 223.	3.1	3

#	ARTICLE	IF	CITATIONS
19	A practical methodology for enhancement and detection of transient faults in a gearbox without prior fault feature information. <i>Measurement Science and Technology</i> , 2021, 32, 035116.	2.6	2
20	On the Suppression of the Backward Motion of a Piezo-Driven Precision Positioning Platform Designed by the Parasitic Motion Principle. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 3870-3878.	7.9	66
21	Tribochemical machining of polycrystalline diamond using ferrous tool materials. <i>Machining Science and Technology</i> , 2020, 24, 1-25.	2.5	2
22	Complete kinematic calibration of a 6-RRRPRR parallel kinematic machine based on the optimal measurement configurations. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 121-136.	2.1	5
23	The performance comparison of typical notched flexure hinges. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 1859-1867.	2.1	15
24	Flow stress modeling, processing maps and microstructure evolution of 05Cr17Ni4Cu4Nb Martensitic stainless steel during hot plastic deformation. <i>Materials Research Express</i> , 2020, 7, 046518.	1.6	5
25	Physically Based Constitutive Model for Viscoplastic Deformation of Inconel718 at High Strain Rates and Temperatures. <i>Journal of Aerospace Engineering</i> , 2020, 33, 04020051.	1.4	2
26	Efficacy of interventions for amblyopia: a systematic review and network meta-analysis. <i>BMC Ophthalmology</i> , 2020, 20, 203.	1.4	6
27	Effects of Machining Errors on Optical Performance of Optical Aspheric Components in Ultra-Precision Diamond Turning. <i>Micromachines</i> , 2020, 11, 331.	2.9	11
28	A Comparison of Negative Compressibility between 3D Cellular Models Constructed by 2D Hinging Wine Rack and Hexagonal Honeycomb Mechanisms. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900657.	1.5	2
29	A New Approach to Decoupled Non-Resonant Polishing. <i>Micromachines</i> , 2019, 10, 484.	2.9	3
30	A New Vibration Device Applied for Two-Dimensional Ultrasonic Polishing of Biomaterials. <i>IEEE Access</i> , 2019, 7, 92838-92849.	4.2	9
31	Study of ultrasonic-hydration compound polishing for sapphire optical channel. <i>AIP Advances</i> , 2019, 9, 105310.	1.3	1
32	Efficacy and safety of anti-EGFR monoclonal antibodies combined with different chemotherapy regimens in patients with RAS wild-type metastatic colorectal cancer: A meta-analysis. <i>Journal of Evidence-Based Medicine</i> , 2019, 12, 300-312.	1.8	10
33	A new motion mode of a parasitic motion principle (PMP) piezoelectric actuator by preloading the flexible hinge mechanism. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 396-404.	4.1	11
34	Probabilistic robustness analysis on the planar parasitic motions of flexural mechanisms with uncertain manufacturing imperfectness. <i>Sensors and Actuators A: Physical</i> , 2019, 294, 154-163.	4.1	1
35	Effects of gear eccentricity on time-varying mesh stiffness and dynamic behavior of a two-stage gear system. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 1019-1032.	1.5	16
36	Development of A New Type of 2-DOF Piezo-Actuated Pseudo-Decoupled Compliant Mechanism for Elliptical Vibration Machining. <i>Micromachines</i> , 2019, 10, 122.	2.9	6

#	ARTICLE	IF	CITATIONS
37	Cutting forces in fast-/slow tool servo diamond turning of micro-structured surfaces. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 136, 62-75.	13.4	74
38	Development of a novel type of elliptical vibration cutting approaches with varying phase difference. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 3107-3120.	3.0	1
39	Negative Compressibility of 3D Cellular Models Constructed by Hinging Hexagonal Truss Mechanism. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800297.	1.5	5
40	Development of a new type of elliptical/non-elliptical vibration coining approaches for manufacturing functional microstructure surfaces. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 025012.	2.6	2
41	Development of a novel flapping wing micro aerial vehicle with elliptical wingtip trajectory. <i>Mechanical Sciences</i> , 2019, 10, 355-362.	1.0	7
42	An adaptive direct slicing method based on tilted voxel of two-photon polymerization. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 521-530.	3.0	9
43	A novel vibration assisted polishing device based on the flexural mechanism driven by the piezoelectric actuators. <i>AIP Advances</i> , 2018, 8, 015012.	1.3	8
44	Modeling surface roughness for polishing process based on abrasive cutting and probability theory. <i>Machining Science and Technology</i> , 2018, 22, 86-98.	2.5	10
45	Fabrication of anti-reflective surfaces by 3-DOF fast tool servo diamond turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2875-2883.	3.0	4
46	Development of dissipative elastic metamaterials based on the layered cantilever-in-mass structure for attenuating the broad spectrum vibrations. <i>AIP Advances</i> , 2018, 8, 055222.	1.3	1
47	Analytical Topography Simulation of Micro/Nano Textures Generated on Freeform Surfaces in Double-Frequency Elliptical Vibration Cutting Based Diamond Turning. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	2.2	8
48	Design and analysis of a novel piezoelectrically actuated vibration assisted rotation cutting system. <i>Smart Materials and Structures</i> , 2018, 27, 095020.	3.5	15
49	Quality assessment of systematic reviews on total hip or knee arthroplasty using mod-AMSTAR. <i>BMC Medical Research Methodology</i> , 2018, 18, 30.	3.1	6
50	Efficacy and safety of eptifibatide versus tirofiban in acute coronary syndrome patients: A systematic review and meta-analysis. <i>Journal of Evidence-Based Medicine</i> , 2017, 10, 136-144.	2.4	15
51	Design, Analysis, and Realization of a Novel Piezoelectrically Actuated Rotary Spatial Vibration System for Micro-/Nanomachining. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 1227-1237.	5.8	54
52	A method for positioning the focal spot location of two photon polymerization. <i>AIP Advances</i> , 2017, 7, 095318.	1.3	6
53	Band gaps in grid structure with periodic local resonator subsystems. <i>Modern Physics Letters B</i> , 2017, 31, 1750225.	1.9	6
54	Development of a Novel Parasitic-Type Piezoelectric Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 541-550.	5.8	133

#	ARTICLE	IF	CITATIONS
55	Polishing process planning based on fuzzy theory and case-based reasoning. International Journal of Advanced Manufacturing Technology, 2017, 90, 907-915.	3.0	6
56	Study on suppressing cutting force fluctuations based on chip loads for turning optical freeform surfaces. International Journal of Advanced Manufacturing Technology, 2017, 90, 2037-2046.	3.0	4
57	Analysis and design of symmetric notch flexure hinges. Advances in Mechanical Engineering, 2017, 9, 168781401773451.	1.6	12
58	High-throughput Generation of Hierarchical Micro/Nanostructures by Spatial Vibration-Assisted Diamond Cutting. Advanced Materials Interfaces, 2016, 3, 1500477.	3.7	9
59	Scaling laws of nanorods in two-photon polymerization nanofabrication using a continuous scanning method. AIP Advances, 2016, 6, 105014.	1.3	5
60	Characterization of Spatial Parasitic Motions of Compliant Mechanisms Induced by Manufacturing Errors. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	7
61	Development of a novel two-dimensional ultrasonically actuated polishing process. AIP Advances, 2016, 6, .	1.3	11
62	Redundantly piezo-actuated XYZ compliant mechanism for nano-positioning featuring simple kinematics, bi-directional motion and enlarged workspace. Smart Materials and Structures, 2016, 25, 125002.	3.5	23
63	Effects of relevant parameters on the bandgaps of acoustic metamaterials with multi-resonators. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	17
64	Study on the consistency of the voxel of two photon polymerization with inclined beam. Optics Communications, 2016, 381, 444-449.	2.1	2
65	Design and testing of a novel XYZ nanopositioning stage with hybrid structure. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 1765-1770.	2.4	9
66	3D cellular models with negative compressibility through the wine-crack-type mechanism. Physica Status Solidi (B): Basic Research, 2016, 253, 1977-1993.	1.5	18
67	Hyperuricemia and the Prognosis of Hypertensive Patients: A Systematic Review and Meta-Analysis. Journal of Clinical Hypertension, 2016, 18, 1268-1278.	2.0	31
68	In situ measurement and error compensation of optical freeform surfaces based on a two DOF fast tool servo. International Journal of Advanced Manufacturing Technology, 2016, 86, 793-798.	3.0	13
69	Surface generation of freeform surfaces in diamond turning by applying double-frequency elliptical vibration cutting. International Journal of Machine Tools and Manufacture, 2016, 104, 45-57.	13.4	50
70	Development of a double-frequency elliptical vibration cutting apparatus for freeform surface diamond machining. International Journal of Advanced Manufacturing Technology, 2016, 87, 2099-2111.	3.0	26
71	The grinding surface characteristics and evaluation of particle-reinforced aluminum silicon carbide. Science and Engineering of Composite Materials, 2016, 23, 671-676.	1.4	12
72	Development of a novel type of hybrid non-symmetric flexure hinges. Review of Scientific Instruments, 2015, 86, 085003.	1.3	15

#	ARTICLE	IF	CITATIONS
73	A review on the processing accuracy of two-photon polymerization. AIP Advances, 2015, 5, .	1.3	258
74	Design and experimental research of an improved stick-slip type piezo-driven linear actuator. Advances in Mechanical Engineering, 2015, 7, 168781401559501.	1.6	25
75	Determining issues in optimal turning of micro-structured functional surfaces. International Journal of Advanced Manufacturing Technology, 2015, 81, 387-396.	3.0	6
76	Research on the effect of the corrugated contact surface on an inchworm-type piezoelectric rotary actuator by finite element method., 2015, , .		2
77	A simple compliance modeling method for flexure hinges. Science China Technological Sciences, 2015, 58, 56-63.	4.0	46
78	Development of a 2-degree-of-freedom decoupled flexural mechanism for micro/nanomachining. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 1900-1911.	2.4	8
79	Compliant linear-rotation motion transduction element based on novel spatial helical flexure hinge. Mechanism and Machine Theory, 2015, 92, 330-337.	4.5	12
80	Design and experimental tests of a dual-servo piezoelectric nanopositioning stage for rotary motion. Review of Scientific Instruments, 2015, 86, 045002.	1.3	43
81	Material removal profile for large mould polishing with coated abrasives. International Journal of Advanced Manufacturing Technology, 2015, 80, 625-635.	3.0	14
82	The analysis and measurement of motion errors of the linear slide in fast tool servo diamond turning machine. Advances in Mechanical Engineering, 2015, 7, 168781401557545.	1.6	0
83	Design and experimental performances of a piezoelectric linear actuator by means of lateral motion. Smart Materials and Structures, 2015, 24, 065007.	3.5	94
84	Improved memetic algorithm for nonlinear identification of a three-dimensional elliptical vibration cutting system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 449-460.	1.0	5
85	Design and experiment performances of an inchworm type rotary actuator. Review of Scientific Instruments, 2014, 85, 085004.	1.3	28
86	Long-stroke fast tool servo and a tool setting method for freeform optics fabrication. Optical Engineering, 2014, 53, 092005.	1.0	11
87	Development of a piezoelectrically actuated two-degree-of-freedom fast tool servo with decoupled motions for micro-/nanomachining. Precision Engineering, 2014, 38, 809-820.	3.4	111
88	A new tool path for optical freeform surface fast tool servo diamond turning. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 1721-1726.	2.4	20
89	Development of a novel sort of exponent-sine-shaped flexure hinges. Review of Scientific Instruments, 2013, 84, 095008.	1.3	43
90	Novel <i>in situ</i> device for investigating the tensile and fatigue behaviors of bulk materials. Review of Scientific Instruments, 2013, 84, 045104.	1.3	15

#	ARTICLE	IF	CITATIONS
91	Development of pseudo-random diamond turning method for fabricating freeform optics with scattering homogenization. Optics Express, 2013, 21, 28469.	3.4	43
92	A Quasiphysics Intelligent Model for a Long Range Fast Tool Servo. Scientific World Journal, The, 2013, 2013, 1-12.	2.1	2
93	A Novel Fractional Order Model for the Dynamic Hysteresis of Piezoelectrically Actuated Fast Tool Servo. Materials, 2012, 5, 2465-2485.	2.9	15
94	Modeling and Compensation for Hysteresis Nonlinearity of a Piezoelectrically Actuated Fast Tool Servo Based on a Novel Linear Model. ISRN Mechanical Engineering, 2012, 2012, 1-8.	0.9	3
95	A flexure-based long-stroke fast tool servo for diamond turning. International Journal of Advanced Manufacturing Technology, 2012, 59, 859-867.	3.0	39
96	Fabrication of Micro-Structured Surfaces on Bulk Metallic Glasses Based on Fast Tool Servo Assisted Diamond Turning. Science of Advanced Materials, 2012, 4, 906-911.	0.7	17
97	Multi-objective optimum design of fast tool servo based on improved differential evolution algorithm. Journal of Mechanical Science and Technology, 2011, 25, 3141-3149.	1.5	34
98	A new hybrid macro- and micro-range fast tool servo. , 2010, , .		1
99	The influence of process parameters on the surface topography in diamond turning of freeform optics. , 2010, , .		0
100	An improved adaptive feedforward cancellation for tool trajectory tracking in diamond turning of freeform optics. , 2010, , .		0
101	A novel hybrid control strategy for trajectory tracking of fast tool servo. , 2010, , .		2
102	Notice of Retraction: A review on mathematical description and decomposition algorithms of freeform optical surfaces in diamond turning. , 2010, , .		1
103	Influences of fluid flow effects on mechanical properties of the blood fuel cell via finite element method. , 2009, , .		0
104	Prediction and Verification of Cutting Force in Machining of SiCp/Al Composites Based on Dynamic Mechanical Characteristics of Cutting Deformation Zone. Applied Composite Materials, 0, , 1.	2.5	1