

# Jieqiong Lin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9285542/publications.pdf>

Version: 2024-02-01

100  
papers

1,202  
citations

516710

16  
h-index

454955

30  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1071  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cutting deformation mechanism of SiCp/Al composites based on strain gradient theory. <i>Journal of Materials Processing Technology</i> , 2022, 299, 117345.	6.3	15
2	Improved magnetorheological finishing process with arc magnet for borosilicate glass. <i>Materials and Manufacturing Processes</i> , 2022, 37, 458-466.	4.7	6
3	Wettability and Droplet Directional Spread Investigation of Crescent Array Surface Inspired by Slippery Zone of Nepenthes. <i>Advanced Materials Interfaces</i> , 2022, 9, 2101231.	3.7	7
4	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
5	Feasibility study of single-crystal silicon ductile-regime turning via fast tool servo. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1478-1493.	5.8	3
6	Transverse additive manufacturing and optical evaluation of miniature thin lenses in ultracompact micro multi-spherical compound eye. <i>Optics and Lasers in Engineering</i> , 2022, 151, 106913.	3.8	6
7	An analytical cutting force model of quasi-intermittent vibration assisted swing cutting based on predictive machining theory. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 3651-3662.	2.1	4
8	Modeling and investigation of cutting force for SiCp/Al composites during ultrasonic vibration-assisted turning. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2022, 236, 1013-1022.	2.5	3
9	Investigation of surface integrity transition of SiCp/Al composites based on specific cutting energy during ultrasonic elliptical vibration assisted cutting. <i>Journal of Manufacturing Processes</i> , 2022, 79, 654-665.	5.9	26
10	Remote sensing image denoising based on improved semi-soft threshold. <i>Signal, Image and Video Processing</i> , 2021, 15, 73-81.	2.7	15
11	Modeling and realization of work-space analysis of a piezoelectric actuator 2-DOF vibration-assisted swing cutting system. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 777-785.	3.1	4
12	High-quality efficient anti-reflection nanopillar structures layer prepared by a new type vibration-assisted UV nanoimprint lithography. <i>Journal of Manufacturing Processes</i> , 2021, 61, 461-472.	5.9	5
13	Impact of microvibration on the optical performance of an airborne camera. <i>Applied Optics</i> , 2021, 60, 1283.	1.8	3
14	Design and Fabrication of Double-Layer Curved Compound Eye via Two-Photon Polymerization. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 231-234.	2.5	8
15	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
16	Modeling and experimental analysis on the effect of carrier aircraft vibration on the imaging quality of an aspherical aerial camera. <i>Optik</i> , 2021, 232, 166571.	2.9	3
17	Ambient temperature effect on the imaging quality of an aspherical airborne camera: theoretical and experimental analysis. <i>Applied Optics</i> , 2021, 60, 3668.	1.8	0
18	Parameter tuning of robust adaptive fuzzy controller for 3D elliptical vibration-assisted cutting. <i>Mechanical Sciences</i> , 2021, 12, 433-442.	1.0	5

#	ARTICLE	IF	CITATIONS
19	Modeling, measurement, and calibration of three-axis integrated aerial camera pointing errors. <i>Measurement Science and Technology</i> , 2021, 32, 075206.	2.6	3
20	Analysis of the influence of vibrations on the imaging quality of an integrated TDICCD aerial camera. <i>Optics Express</i> , 2021, 29, 18108.	3.4	8
21	Analyzing the Effect of Particle Shape on Deformation Mechanism during Cutting Simulation of SiC P/Al Composites. <i>Micromachines</i> , 2021, 12, 953.	2.9	7
22	Non-resonant vibration-assisted magnetorheological finishing. <i>Precision Engineering</i> , 2021, 71, 263-281.	3.4	19
23	Elliptic vibration assisted cutting of metal matrix composite reinforced by silicon carbide: an investigation of machining mechanisms and surface integrity. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1115-1129.	5.8	27
24	Magnetic Driven Double Curved Conical Microhelical Robot. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100189.	2.8	6
25	Piezoelectric Hysteresis Modeling of Hybrid Driven Three-Dimensional Elliptical Vibration Aided Cutting System Based on an Improved Flower Pollination Algorithm. <i>Micromachines</i> , 2021, 12, 1532.	2.9	1
26	Design, analysis and preliminary tests of a linear array CCD aerial camera for ground simulation. <i>Optik</i> , 2020, 200, 163378.	2.9	2
27	Development of Decoupling Device for Vibration-Assisted Roller Polishing of Silicon Carbide Ceramics. <i>IEEE Access</i> , 2020, 8, 219098-219113.	4.2	1
28	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
29	Study on subsurface damage and surface quality of silicon carbide ceramic induced by a novel non-resonant vibration-assisted roll-type polishing. <i>Journal of Materials Processing Technology</i> , 2020, 282, 116667.	6.3	26
30	Error modeling and analysis of optomechanical platform based on multi-system theory. <i>AIP Advances</i> , 2020, 10, 035319.	1.3	0
31	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
32	Study on vibration-assisted thermal nanoimprint lithography. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3315-3324.	3.1	8
33	A tool path generation method for quasi-intermittent vibration assisted swing cutting. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2020, 234, 624-633.	2.5	6
34	Modeling and analysis for the position and posture errors of laser focal spot in large-scale fabrication via two photon polymerization. <i>Optics and Laser Technology</i> , 2020, 126, 106076.	4.6	5
35	Friction modeling of tool-chip interface based on shear-slip theory for vibration assisted swing cutting. <i>Journal of Manufacturing Processes</i> , 2020, 55, 240-248.	5.9	9
36	Design of Robust Adaptive Fuzzy Controller for a Class of Single-Input Single-Output (SISO) Uncertain Nonlinear Systems. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-11.	1.1	8

#	ARTICLE	IF	CITATIONS
37	Design, analysis, and testing of a novel 2-DOF vibration-assisted polishing device driven by the piezoelectric actuators. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 471-493.	3.0	6
38	Modeling and optimization of the integrated TDICCD aerial camera pointing error. <i>Applied Optics</i> , 2020, 59, 8196.	1.8	5
39	Design and Computational Optimization of Elliptical Vibration-Assisted Cutting System With a Novel Flexure Structure. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 1151-1161.	7.9	27
40	A New Vibration Device Applied for Two-Dimensional Ultrasonic Polishing of Biomaterials. <i>IEEE Access</i> , 2019, 7, 92838-92849.	4.2	9
41	Development of a Novel Three Degrees-of-Freedom Rotary Vibration-Assisted Micropolishing System Based on Piezoelectric Actuation. <i>Micromachines</i> , 2019, 10, 502.	2.9	6
42	Optical Design of Small Imaging Lens with Large Field Of View Angle. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 252, 052128.	0.3	1
43	Chatter Identification of Three-Dimensional Elliptical vibration Cutting Process Based on Empirical Mode Decomposition and Feature Extraction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 21.	2.5	11
44	Development of Piezo-Actuated Two-Degree-of-Freedom Fast Tool Servo System. <i>Micromachines</i> , 2019, 10, 337.	2.9	11
45	Research on homogenization and surface morphology of Ti-6Al-4V alloy by longitudinal-torsional coupled ultrasonic vibration ball-end milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 301-313.	3.0	20
46	Analytical Prediction of Subsurface Damages and Surface Quality in Vibration-Assisted Polishing Process of Silicon Carbide Ceramics. <i>Materials</i> , 2019, 12, 1690.	2.9	5
47	Improved differential evolutionary algorithm for nonlinear identification of a novel vibration-assisted swing cutting system. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 1066-1078.	4.1	4
48	A nonlinear Wiener system identification based on improved adaptive step-size glowworm swarm optimization algorithm for three-dimensional elliptical vibration cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 2865-2877.	3.0	6
49	Adaptive Slicing Method for Three-Dimensional Microstructures with Free-Form Surfaces in Two Photon Polymerization Microfabrication. <i>Nano</i> , 2019, 14, 1950006.	1.0	6
50	Development of an Aspherical Aerial Camera Optical System. <i>IEEE Photonics Journal</i> , 2019, 11, 1-13.	2.0	4
51	Design and analysis of ground-based operation test bench for complex optical machine functional components. <i>AIP Advances</i> , 2019, 9, 095203.	1.3	0
52	Stochastic Multi-Molecular Modeling Method of Organic-Modified Ceramics in Two-Photon Induced Photopolymerization. <i>Materials</i> , 2019, 12, 3876.	2.9	0
53	Diffusion mechanism of tools and simulation in nanoscale cutting the Ni-Fe-Cr series of Nickel-based superalloy. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 625-636.	6.7	51
54	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

#	ARTICLE	IF	CITATIONS
55	Development and Experiment of a Novel Vibration-assisted Cutting Apparatus. , 2018, , .		0
56	Modeling and Analysis of a Novel Decoupled Vibration-Assisted Swing Cutting System for Micro/Nano-Machining Surface. IEEE Access, 2018, 6, 70388-70396.	4.2	8
57	Vibration-Assisted Roll-Type Polishing System Based on Compliant Micro-Motion Stage. Micromachines, 2018, 9, 499.	2.9	13
58	Development of dissipative elastic metamaterials based on the layered cantilever-in-mass structure for attenuating the broad spectrum vibrations. AIP Advances, 2018, 8, 055222.	1.3	1
59	Analytical Topography Simulation of Micro/Nano Textures Generated on Freeform Surfaces in Double-Frequency Elliptical Vibration Cutting Based Diamond Turning. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	8
60	Design and analysis of a novel piezoelectrically actuated vibration assisted rotation cutting system. Smart Materials and Structures, 2018, 27, 095020.	3.5	15
61	Modeling and analysis of surface topography of Ti6Al4V alloy machining by elliptical vibration cutting. International Journal of Advanced Manufacturing Technology, 2018, 98, 2759-2768.	3.0	17
62	Subsurface Damage in Polishing Process of Silicon Carbide Ceramic. Materials, 2018, 11, 506.	2.9	18
63	Design and Fabrication of a Three-Dimensional Artificial Compound Eye Using Two-Photon Polymerization. Micromachines, 2018, 9, 336.	2.9	12
64	Design, analysis, and testing of a flexure-based vibration-assisted polishing device. AIP Advances, 2018, 8, 055113.	1.3	7
65	New observations on wear mechanism of self-reinforced SiALON ceramic tool in milling of Inconel 718. Archives of Civil and Mechanical Engineering, 2017, 17, 467-474.	3.8	17
66	Two Photon Polymerization Micro/Nanofabrication of Suspended Nanorods in Organically Modified Ceramics. Nano, 2017, 12, 1750033.	1.0	4
67	Design, analysis and testing of a new piezoelectric tool actuator for elliptical vibration turning. Smart Materials and Structures, 2017, 26, 085008.	3.5	17
68	A method for positioning the focal spot location of two photon polymerization. AIP Advances, 2017, 7, 095318.	1.3	6
69	Flow characteristics and constitutive equations of flow stress in high speed cutting Alloy 718. Journal of Alloys and Compounds, 2017, 728, 854-862.	5.5	14
70	Band gaps in grid structure with periodic local resonator subsystems. Modern Physics Letters B, 2017, 31, 1750225.	1.9	6
71	Modeling and analysis of the chip formation and transient cutting force during elliptical vibration cutting process. AIP Advances, 2017, 7, 125101.	1.3	14
72	Investigation of silicon carbide ceramic polishing by simulation and experiment. Advances in Mechanical Engineering, 2017, 9, 168781401772909.	1.6	6

#	ARTICLE	IF	CITATIONS
73	Research on the Effect of Cutting Parameters on Chip Formation and Cutting Force in Elliptical Vibration Cutting Process. IOP Conference Series: Materials Science and Engineering, 2017, 274, 012142.	0.6	1
74	The preparation of Nepenthes Bio-inspired superhydrophobic surface primary microstructure. IOP Conference Series: Materials Science and Engineering, 2017, 274, 012066.	0.6	2
75	Design and Performance Testing of a Novel Three-Dimensional Elliptical Vibration Turning Device. Micromachines, 2017, 8, 305.	2.9	13
76	Study on Ti-6Al-4V Alloy Machining Applying the Non-Resonant Three-Dimensional Elliptical Vibration Cutting. Micromachines, 2017, 8, 306.	2.9	29
77	Design and analysis of a 3D Elliptical Micro-Displacement Motion Stage. IOP Conference Series: Materials Science and Engineering, 2017, 274, 012143.	0.6	0
78	Study on the tool wear of 3-D elliptical vibration cutting. Mechanical Sciences, 2017, 8, 215-220.	1.0	7
79	Effect and Optimization of the Process Parameters on the Surface Morphology of the 3D Elliptical Vibration Cutting. DEStech Transactions on Computer Science and Engineering, 2017, , .	0.1	0
80	Scaling laws of nanorods in two-photon polymerization nanofabrication using a continuous scanning method. AIP Advances, 2016, 6, 105014.	1.3	5
81	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
82	Study on the consistency of the voxel of two photon polymerization with inclined beam. Optics Communications, 2016, 381, 444-449.	2.1	2
83	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
84	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
85	NURBS Fitting Algorithm of Section Contour Data based on Two-photon Polymerization Process. , 2016, , .		0
86	A review on the processing accuracy of two-photon polymerization. AIP Advances, 2015, 5, .	1.3	258
87	Wear characteristics and wear control method of PVD-coated carbide tool in turning Inconel 718. International Journal of Advanced Manufacturing Technology, 2015, 78, 1329-1336.	3.0	35
88	New observations on tool wear mechanism in machining Inconel 718 under water vapor+ air cooling lubrication cutting conditions. Journal of Cleaner Production, 2015, 90, 381-387.	9.3	36
89	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
90	Harmonic retrieval of regenerative machining chatter responses. Mechanical Systems and Signal Processing, 2013, 41, 679-690.	8.0	1

#	ARTICLE	IF	CITATIONS
91	Evolution of Workpiece Microstructure and Cutting Force During Ultraprecision Vibration Assisted Machining. Journal of Computational and Theoretical Nanoscience, 2013, 10, 78-85.	0.4	4
92	A Quasiphysics Intelligent Model for a Long Range Fast Tool Servo. Scientific World Journal, The, 2013, 2013, 1-12.	2.1	2
93	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
94	Molecular Dynamics Simulation Study of the Effect of DMSO on Structural and Permeation Properties of DMPC Lipid Bilayers. Journal of Physical Chemistry B, 2012, 116, 1299-1308.	2.6	27
95	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
96	An Improved Adaptive Feedforward Cancellation for Trajectory Tracking of Fast Tool Servo Based on Fractional Calculus. Procedia Engineering, 2011, 15, 315-320.	1.2	15
97	A Novel Service-Oriented Network Structure in Wireless Sensor Networks. , 2011, , .		0
98	Multiscale Analysis of Cutting Force During Nano-Scale Vibration Assisted Machining. Nanoscience and Nanotechnology Letters, 2011, 3, 749-754.	0.4	2
99	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
100	Design, Analysis and Testing of Piezoelectric Tool Actuator for Elliptical Vibration Cutting. , 0, , .		0