

Hai Li

List of Publications by Year in descending order

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35
papers

685
citations

623734

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552781

26
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35
all docs

35
docs citations

35
times ranked

452
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of compliant mechanisms using continuum topology optimization: A review. <i>Mechanism and Machine Theory</i> , 2020, 143, 103622.	4.5	218
2	Nonlinear analysis and optimal design of a novel piezoelectric-driven compliant microgripper. <i>Mechanism and Machine Theory</i> , 2017, 118, 32-52.	4.5	54
3	Full closed-loop controls of micro/nano positioning system with nonlinear hysteresis using micro-vision system. <i>Sensors and Actuators A: Physical</i> , 2017, 257, 125-133.	4.1	44
4	Realtime in-plane displacements tracking of the precision positioning stage based on computer micro-vision. <i>Mechanical Systems and Signal Processing</i> , 2019, 124, 111-123.	8.0	34
5	Line-based calibration of a micro-vision motion measurement system. <i>Optics and Lasers in Engineering</i> , 2017, 93, 40-46.	3.8	30
6	A Review of Computer Microvision-Based Precision Motion Measurement: Principles, Characteristics, and Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-28.	4.7	24
7	An 89-line code for geometrically nonlinear topology optimization written in FreeFEM. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1015-1027.	3.5	23
8	A monocular vision system for online pose measurement of a 3RRR planar parallel manipulator. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 92, 3-17.	3.4	23
9	Displacement measurement system for inverters using computer micro-vision. <i>Optics and Lasers in Engineering</i> , 2016, 81, 113-118.	3.8	22
10	Pose Sensing and Servo Control of the Compliant Nanopositioners Based on Microscopic Vision. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 3324-3335.	7.9	22
11	Online Precise Motion Measurement of 3-DOF Nanopositioners Based on Image Correlation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 782-790.	4.7	20
12	Design of Planar Large-Deflection Compliant Mechanisms With Decoupled Multi-Input-Output Using Topology Optimization. <i>Journal of Mechanisms and Robotics</i> , 2019, 11, .	2.2	16
13	Micro-motion detection of the 3-DOF precision positioning stage based on iterative optimized template matching. <i>Applied Optics</i> , 2017, 56, 9435.	1.8	15
14	High-precision displacement measurement method for three degrees of freedom-compliant mechanisms based on computer micro-vision. <i>Applied Optics</i> , 2016, 55, 2594.	2.1	14
15	Topological and Shape Optimization of Flexure Hinges for Designing Compliant Mechanisms Using the Level Set Method. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2019, 32, .	3.7	14
16	A high accuracy algorithm of displacement measurement for a micro-positioning stage. <i>AIP Advances</i> , 2017, 7, .	1.3	12
17	Vision-based adaptive control of a 3-RRR parallel positioning system. <i>Science China Technological Sciences</i> , 2018, 61, 1253-1264.	4.0	12
18	A robust rotation-invariance displacement measurement method for a micro-/nano-positioning system. <i>Measurement Science and Technology</i> , 2018, 29, 055402.	2.6	11

#	ARTICLE	IF	CITATIONS
19	Design and analysis of corrugated flexure-based lamina emergent spatial joints for symmetrical compliant kaleidocycles. <i>Mechanism and Machine Theory</i> , 2022, 167, 104525.	4.5	11
20	An Improved Template-Matching-Based Pose Tracking Method for Planar Nanopositioning Stages Using Enhanced Correlation Coefficient. <i>IEEE Sensors Journal</i> , 2020, 20, 6378-6387.	4.7	10
21	An Approach for Geometrically Nonlinear Topology Optimization Using Moving Wide-Beam Components With Constrained Ends. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2022, 144, .	2.9	10
22	A simplified focusing and astigmatism correction method for a scanning electron microscope. <i>AIP Advances</i> , 2018, 8, .	1.3	6
23	Laser direct printing of solder paste. <i>AIP Advances</i> , 2019, 9, 125306.	1.3	6
24	Design of compliant mechanisms: An explicit topology optimization method using end-constrained spline curves with variable width. <i>Mechanism and Machine Theory</i> , 2022, 171, 104713.	4.5	6
25	Adaptive differential correspondence imaging based on sorting technique. <i>AIP Advances</i> , 2017, 7, 045121.	1.3	5
26	A robust edge-based template matching algorithm for displacement measurement of compliant mechanisms under scanning electron microscope. <i>Review of Scientific Instruments</i> , 2021, 92, 033703.	1.3	5
27	Edge determination improvement of scanning electron microscope images by inpainting and anisotropic diffusion for measurement and analysis of microstructures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 176, 109217.	5.0	5
28	Motion measurement system of compliant mechanisms using computer micro-vision. <i>Optics Express</i> , 2021, 29, 5006.	3.4	4
29	High-Accuracy Calibration of a Visual Motion Measurement System for Planar 3-DOF Robots Using Gaussian Process. <i>IEEE Sensors Journal</i> , 2019, 19, 7659-7667.	4.7	3
30	A Phase Diagram-Based Stability Design Method for a Symmetrical Origami Waterbomb Base. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2022, 144, .	2.9	3
31	A three-step displacement measurement method for a 3-DOF macro-micro positioning stage. <i>Review of Scientific Instruments</i> , 2018, 89, 113701.	1.3	2
32	High-efficiency Transmission of Industrial Heterogeneous Data in a Typical Mobile Phone Assembly Production Line. , 2022, , .		1
33	A robust block matching algorithm for motion estimation using an anti-interference similarity criterion and the bilateral optimization scheme. <i>Applied Optics</i> , 2021, 60, 4746-4754.	1.8	0
34	Design of Flexure Hinges Using Geometrically Nonlinear Topology Optimization. <i>Lecture Notes in Computer Science</i> , 2021, , 179-189.	1.3	0
35	Corrections to "High-Accuracy Calibration of a Visual Motion Measurement System for Planar 3-DOF Robots Using Gaussian Process". <i>IEEE Sensors Journal</i> , 2019, 19, 12510-12510.	4.7	0