

# Haojian Lu

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,273  
citations

471509

17  
h-index

361022

35  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1194  
citing authors

#	ARTICLE	IF	CITATIONS
1	A bioinspired multilegged soft millirobot that functions in both dry and wet conditions. Nature Communications, 2018, 9, 3944.	12.8	385
2	Swarm of micro flying robots in the wild. Science Robotics, 2022, 7, eabm5954.	17.6	139
3	An agglutinate magnetic spray transforms inanimate objects into millirobots for biomedical applications. Science Robotics, 2020, 5, .	17.6	115
4	Batteryâ€less Soft Millirobot That Can Move, Sense, and Communicate Remotely by Coupling the Magnetic and Piezoelectric Effects. Advanced Science, 2020, 7, 2000069.	11.2	73
5	Ultrahigh-Precision Rotational Positioning Under a Microscope: Nanorobotic System, Modeling, Control, and Applications. IEEE Transactions on Robotics, 2018, 34, 497-507.	10.3	56
6	Millimeterâ€scale Soft Continuum Robots for Largeâ€angle and Highâ€precision Manipulation by Hybrid Actuation. Advanced Intelligent Systems, 2021, 3, 2000189.	6.1	48
7	Automatic Sample Alignment Under Microscopy for 360Â° Imaging Based on the Nanorobotic Manipulation System. IEEE Transactions on Robotics, 2017, 33, 220-226.	10.3	36
8	In situ reduction of silver nanoparticles on hybrid polydopamineâ€copper phosphate nanoflowers with enhanced antimicrobial activity. Journal of Materials Chemistry B, 2017, 5, 5311-5317.	5.8	34
9	State of the Art: Bipedal Robots for Lower Limb Rehabilitation. Applied Sciences (Switzerland), 2017, 7, 1182.	2.5	34
10	Vision-based Nano Robotic System for High-throughput Non-embedded Cell Cutting. Scientific Reports, 2016, 6, 22534.	3.3	32
11	Recent Advances on In Situ SEM Mechanical and Electrical Characterization of Low-Dimensional Nanomaterials. Scanning, 2017, 2017, 1-11.	1.5	23
12	Nanofiber-based biodegradable millirobot with controllable anchoring and adaptive stepwise release functions. Matter, 2022, 5, 1277-1295.	10.0	21
13	Nanorobotic Manipulation System for 360 <sup>°</sup> Characterization Atomic Force Microscopy. IEEE Transactions on Industrial Electronics, 2020, 67, 2916-2924.	7.9	20
14	Magnetically Actuated Heterogeneous Microcapsule-Robot for the Construction of 3D Bioartificial Architectures. ACS Applied Materials & Interfaces, 2019, 11, 25664-25673.	8.0	19
15	Less-invasive non-embedded cell cutting by nanomanipulation and vibrating nanoknife. Applied Physics Letters, 2017, 110, .	3.3	18
16	Starfish Inspired Milli Soft Robot With Omnidirectional Adaptive Locomotion Ability. IEEE Robotics and Automation Letters, 2021, 6, 3325-3332.	5.1	18
17	A 3D-Printed Fin Ray Effect Inspired Soft Robotic Gripper with Force Feedback. Micromachines, 2021, 12, 1141.	2.9	18
18	Multidirectional Image Sensing for Microscopy Based on a Rotatable Robot. Sensors, 2015, 15, 31566-31580.	3.8	17

#	ARTICLE	IF	CITATIONS
19	Nanorobotic System iTRo for Controllable 1D Micro/nano Material Twisting Test. Scientific Reports, 2017, 7, 3077.	3.3	16
20	Surface defect detection of magnetic microwires by miniature rotatable robot inside SEM. AIP Advances, 2016, 6, 095309.	1.3	12
21	Actuation and biomedical development of micro-/nanorobots – A review. Materials Today Nano, 2022, 18, 100223.	4.6	12
22	Milli-scale cellular robots that can reconfigure morphologies and behaviors simultaneously. Nature Communications, 2022, 13, .	12.8	12
23	Self-Assembly Magnetic Chain Unit for Bulk Biomaterial Actuation. IEEE Robotics and Automation Letters, 2019, 4, 262-268.	5.1	11
24	Nanorobotic System for Precise In-situ 3D Manufacture of Helical Microstructures. IEEE Robotics and Automation Letters, 2018, , 1-1.	5.1	8
25	7-DoFs Rotation-Thrust Microrobotic Control for Low-Invasive Cell Pierce via Impedance Compensation. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5095-5106.	5.8	8
26	Automatic 3D reconstruction of SEM images based on Nano-robotic manipulation and epipolar plane images. Ultramicroscopy, 2019, 200, 149-159.	1.9	7
27	360° multiparametric imaging atomic force microscopy: A method for three-dimensional nanomechanical mapping. Ultramicroscopy, 2019, 196, 83-87.	1.9	7
28	Microrobotic Manipulation at Time-Varying Air–Liquid Interface for High-Precise Watch-Hand Alignment. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2746-2756.	5.8	6
29	Specimen's plane misaligned installation solution based on charge fluctuation inside SEM. Applied Physics Letters, 2018, 112, 144102.	3.3	6
30	Flexible 3-D Helix Fabrication by In-Situ SEM Micromanipulation System. IEEE Transactions on Industrial Electronics, 2020, 67, 5565-5574.	7.9	6
31	A Proprioceptive Soft Robot Module Based on Supercoiled Polymer Artificial Muscle Strings. Polymers, 2022, 14, 2265.	4.5	6
32	In situbending and recovery characterization of hollow glass nanoneedle based on nanorobotic manipulation. Journal of Micromechanics and Microengineering, 2017, 27, 095011.	2.6	5
33	In Situ SEM Torsion Test of Metallic Glass Microwires Based on Micro Robotic Manipulation. Scanning, 2017, 2017, 1-7.	1.5	5
34	Low-Invasive Cell Injection based on Rotational Microrobot. Advanced Biology, 2019, 3, e1800274.	3.0	5
35	Effect of alignment angle on the alignment accuracy of a miniature rotation robot for microscopy imaging. International Journal of Advanced Robotic Systems, 2017, 14, 172988141770357.	2.1	4
36	Robot-aided fN <sup>m</sup> torque sensing within an ultrawide dynamic range. Microsystems and Nanoengineering, 2021, 7, 2.	7.0	4

#	ARTICLE	IF	CITATIONS
37	Analysis and control for a bioinspired multi-legged soft robot. <i>Biomimetic Intelligence and Robotics</i> , 2022, 2, 100030.	2.0	4
38	Ultrasonic robotic system for noncontact small object manipulation based on Kinect gesture control. <i>International Journal of Advanced Robotic Systems</i> , 2017, 14, 172988141773873.	2.1	3
39	An Omnidirectional and Movable Palletizing Robot based on Computer Vision Positioning. , 2018, , .		3
40	Precise Watch-Hand Alignment Under Disturbance Condition by Microrobotic System. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019, 16, 278-285.	5.2	3
41	Scale effect investigation of copper microwire's mechanical properties after in situ scanning electron microscope twisting. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 3670-3677.	2.1	3
42	Development of lower limb rehabilitation evaluation system based on virtual reality technology. , 2016, , .		2
43	Robust Orthogonal-View 2-D/3-D Rigid Registration for Minimally Invasive Surgery. <i>Micromachines</i> , 2021, 12, 844.	2.9	2
44	Investigation of the Nonaxisymmetric Bending Property of Pollen Tubes via a Rotary Nanorobotic System. <i>IEEE Nanotechnology Magazine</i> , 2019, 18, 139-143.	2.0	1
45	Corrections to "Starfish Inspired Milli Soft Robot With Omnidirectional Adaptive Locomotion Ability" [Apr 21 3325-3332]. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5348-5348.	5.1	1
46	Multi-directional Characterization for Pollen Tubes Based on a Nanorobotic Manipulation System. <i>Lecture Notes in Computer Science</i> , 2017, , 84-93.	1.3	0
47	Rotational nanorobotic manipulation system with increment alignment method for multi-directional defect characterization inside SEM. , 2017, , .		0
48	Miniature rotation robot for full-orientation imaging under microscopy. , 2017, , .		0
49	Remote control non-contact manipulation system for micro robotics. , 2017, , .		0
50	Efficient Micro Waveguide Coupling based on Microrobotic Positioning. , 2019, , .		0