

# Haojian Lu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3062471/publications.pdf>

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  | Analysis and control for a bioinspired multi-legged soft robot. <i>Biomimetic Intelligence and Robotics</i> , 2022, 2, 100030.   | 2.0  | 4         |
| 2  | Nanofiber-based biodegradable millirobot with controllable anchoring and adaptive stepwise release functions. <i>Matter</i> , 2022, 5, 1277-1295.  | 10.0 | 21        |
| 3  | Swarm of micro flying robots in the wild. <i>Science Robotics</i> , 2022, 7, eabm5954.   | 17.6 | 139       |
| 4  | Actuation and biomedical development of micro-/nanorobots – A review. <i>Materials Today Nano</i> , 2022, 18, 100223.  | 4.6  | 12        |
| 5  | A Proprioceptive Soft Robot Module Based on Supercoiled Polymer Artificial Muscle Strings. <i>Polymers</i> , 2022, 14, 2265.   | 4.5  | 6         |
| 6  | 7-DoFs Rotation-Thrust Microrobotic Control for Low-Invasive Cell Pierce via Impedance Compensation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 5095-5106.                  | 5.8  | 8         |
| 7  | Milli-scale cellular robots that can reconfigure morphologies and behaviors simultaneously. <i>Nature Communications</i> , 2022, 13, .   | 12.8 | 12        |
| 8  | Millimeter-scale Soft Continuum Robots for Large-angle and High-precision Manipulation by Hybrid Actuation. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000189.                        | 6.1  | 48        |
| 9  | Starfish Inspired Milli Soft Robot With Omnidirectional Adaptive Locomotion Ability. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 3325-3332.                                     | 5.1  | 18        |
| 10 | Robust Orthogonal-View 2-D/3-D Rigid Registration for Minimally Invasive Surgery. <i>Micromachines</i> , 2021, 12, 844.  | 2.9  | 2         |
| 11 | A 3D-Printed Fin Ray Effect Inspired Soft Robotic Gripper with Force Feedback. <i>Micromachines</i> , 2021, 12, 1141.  | 2.9  | 18        |
| 12 | Robot-aided fN <sup>TM</sup> m torque sensing within an ultrawide dynamic range. <i>Microsystems and Nanoengineering</i> , 2021, 7, 2.   | 7.0  | 4         |
| 13 | 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         |
| 14 | Nanorobotic Manipulation System for 360° Characterization Atomic Force Microscopy. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 2916-2924.                               | 7.9  | 20        |
| 15 | Flexible 3-D Helix Fabrication by In-Situ SEM Micromanipulation System. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 5565-5574.  | 7.9  | 6         |
| 16 | An agglutinate magnetic spray transforms inanimate objects into millirobots for biomedical applications. <i>Science Robotics</i> , 2020, 5, .  | 17.6 | 115       |
| 17 | Battery-less Soft Millirobot That Can Move, Sense, and Communicate Remotely by Coupling the Magnetic and Piezoelectric Effects. <i>Advanced Science</i> , 2020, 7, 2000069.                | 11.2 | 73        |
| 18 | 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         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Magnetically Actuated Heterogeneous Microcapsule-Robot for the Construction of 3D Bioartificial Architectures. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25664-25673.  | 8.0  | 19        |
| 20 | Efficient Micro Waveguide Coupling based on Microrobotic Positioning. , 2019, , .  |      | 0         |
| 21 | Low-Invasive Cell Injection based on Rotational Microrobot. <i>Advanced Biology</i> , 2019, 3, e1800274.   | 3.0  | 5         |
| 22 | Automatic 3D reconstruction of SEM images based on Nano-robotic manipulation and epipolar plane images. <i>Ultramicroscopy</i> , 2019, 200, 149-159.   | 1.9  | 7         |
| 23 | 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         |
| 24 | Self-Assembly Magnetic Chain Unit for Bulk Biomaterial Actuation. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 262-268.  | 5.1  | 11        |
| 25 | 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         |
| 26 | 360° multiparametric imaging atomic force microscopy: A method for three-dimensional nanomechanical mapping. <i>Ultramicroscopy</i> , 2019, 196, 83-87.  | 1.9  | 7         |
| 27 | Ultrahigh-Precision Rotational Positioning Under a Microscope: Nanorobotic System, Modeling, Control, and Applications. <i>IEEE Transactions on Robotics</i> , 2018, 34, 497-507.  | 10.3 | 56        |
| 28 | Specimen's plane misaligned installation solution based on charge fluctuation inside SEM. <i>Applied Physics Letters</i> , 2018, 112, 144102.  | 3.3  | 6         |
| 29 | An Omnidirectional and Movable Palletizing Robot based on Computer Vision Positioning. , 2018, , .   |      | 3         |
| 30 | A bioinspired multilegged soft millirobot that functions in both dry and wet conditions. <i>Nature Communications</i> , 2018, 9, 3944.   | 12.8 | 385       |
| 31 | Nanorobotic System for Precise In-situ 3D Manufacture of Helical Microstructures. <i>IEEE Robotics and Automation Letters</i> , 2018, , 1-1.   | 5.1  | 8         |
| 32 | Less-invasive non-embedded cell cutting by nanomanipulation and vibrating nanoknife. <i>Applied Physics Letters</i> , 2017, 110, .   | 3.3  | 18        |
| 33 | In situ reduction of silver nanoparticles on hybrid polydopamine-copper phosphate nanoflowers with enhanced antimicrobial activity. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5311-5317.  | 5.8  | 34        |
| 34 | Automatic Sample Alignment Under Microscopy for 360° Imaging Based on the Nanorobotic Manipulation System. <i>IEEE Transactions on Robotics</i> , 2017, 33, 220-226.   | 10.3 | 36        |
| 35 | Nanorobotic System iTRo for Controllable 1D Micro/nano Material Twisting Test. <i>Scientific Reports</i> , 2017, 7, 3077.  | 3.3  | 16        |
| 36 | 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         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | In situbending and recovery characterization of hollow glass nanoneedle based on nanorobotic manipulation. Journal of Micromechanics and Microengineering, 2017, 27, 095011.            | 2.6 | 5         |
| 38 | Rotational nanorobotic manipulation system with increment alignment method for multi-directional defect characterization inside SEM. , 2017, , .  |     | 0         |
| 39 | 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         |
| 40 | Microrobotic Manipulation at Time-Varying Airâ€“Liquid Interface for High-Precise Watch-Hand Alignment. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2746-2756.                    | 5.8 | 6         |
| 41 | Ultrasonic robotic system for noncontact small object manipulation based on Kinect gesture control. International Journal of Advanced Robotic Systems, 2017, 14, 172988141773873.       | 2.1 | 3         |
| 42 | Miniature rotation robot for full-orientation imaging under microscopy. , 2017, , .   |     | 0         |
| 43 | Recent Advances on In Situ SEM Mechanical and Electrical Characterization of Low-Dimensional Nanomaterials. Scanning, 2017, 2017, 1-11.   | 1.5 | 23        |
| 44 | In Situ SEM Torsion Test of Metallic Glass Microwires Based on Micro Robotic Manipulation. Scanning, 2017, 2017, 1-7.   | 1.5 | 5         |
| 45 | Remote control non-contact manipulation system for micro robotics. , 2017, , .  |     | 0         |
| 46 | State of the Art: Bipedal Robots for Lower Limb Rehabilitation. Applied Sciences (Switzerland), 2017, 7, 1182.  | 2.5 | 34        |
| 47 | Surface defect detection of magnetic microwires by miniature rotatable robot inside SEM. AIP Advances, 2016, 6, 095309.   | 1.3 | 12        |
| 48 | Development of lower limb rehabilitation evaluation system based on virtual reality technology. , 2016, , .   |     | 2         |
| 49 | Vision-based Nano Robotic System for High-throughput Non-embedded Cell Cutting. Scientific Reports, 2016, 6, 22534.   | 3.3 | 32        |
| 50 | Multidirectional Image Sensing for Microscopy Based on a Rotatable Robot. Sensors, 2015, 15, 31566-31580.   | 3.8 | 17        |