# Lin Feng

List of Publications by Year
in descending order



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|---|---|---|---|
| 94 papers | 2,296 citations | 331259 21 h-index | 223531 46 g-index |
| 98 all docs | 98 docs citations | 98 times ranked | 2602 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Structured cone arrays for continuous and effective collection of micron-sized oil droplets from water. Nature Communications, 2013, 4, 2276. | 5.8 | 386 |
| 2 | The Basic Properties of Gold Nanoparticles and their Applications in Tumor Diagnosis and Treatment. International Journal of Molecular Sciences, 2020, 21, 2480. | 1.8 | 200 |
| 3 | On-chip magnetically actuated robot with ultrasonic vibration for single cell manipulations. Lab on A Chip, 2011, 11, 2049. | 3.1 | 163 |
| 4 | Facile Fabrication of Magnetic Microrobots Based on Spirulina Templates for Targeted Delivery and Synergistic Chemo-Photothermal Therapy. ACS Applied Materials & Interfaces, 2019, 11, 4745-4756. | 4.0 | 110 |
| 5 | Improved Piezoelectric Sensing Performance of P(VDFâ€“TrFE) Nanofibers by Utilizing BTO Nanoparticles and Penetrated Electrodes. ACS Applied Materials & Interfaces, 2019, 11, 7379-7386. | 4.0 | 100 |
| 6 | High-precision motion of magnetic microrobot with ultrasonic levitation for 3-D rotation of single oocyte. International Journal of Robotics Research, 2016, 35, 1445-1458. | 5.8 | 80 |
| 7 | Biomineralization Forming Process and Bio-inspired Nanomaterials for Biomedical Application: A Review. Minerals (Basel, Switzerland), 2019, 9, 68. | 0.8 | 70 |
| 8 | Bio-inspired magnetic helical microswimmers made of nickel-plated Spirulina with enhanced propulsion velocity. Journal of Magnetism and Magnetic Materials, 2018, 468, 148-154. | 1.0 | 51 |
| 9 | Aligned P(VDF-TrFE) Nanofibers for Enhanced Piezoelectric Directional Strain Sensing. Polymers, 2018, 10, 364. | 2.0 | 49 |
| 10 | Recent Advances in Fieldâ€Controlled Microâ€“Nano Manipulations and Microâ€“Nano Robots. Advanced Intelligent Systems, 2022, 4, 2100116. | 3.3 | 39 |
| 11 | Polymer-controlled synthesis of Fe3O4 single-crystal nanorods. Journal of Colloid and Interface Science, 2004, 278, 372-375. | 5.0 | 38 |
| 12 | On-Chip Enucleation of Bovine Oocytes using Microrobot-Assisted Flow-Speed Control. Micromachines, 2013, 4, 272-285. | 1.4 | 38 |
| 13 | Precise Control of Customized Macrophage Cell Robot for Targeted Therapy of Solid Tumors with Minimal Invasion. Small, 2021, 17, e2103986. | 5.2 | 38 |
| 14 | On-chip rotational manipulation of microbeads and oocytes using acoustic microstreaming generated by oscillating asymmetrical microstructures. Biomicrofluidics, 2019, 13, 064103. | 1.2 | 31 |
| 15 | Deformable ferrofluid-based millirobot with high motion accuracy and high output force. Applied Physics Letters, 2021, 118, . | 1.5 | 29 |
| 16 | On-chip microfluid induced by oscillation of microrobot for noncontact cell transportation. Applied Physics Letters, 2017, 111, . | 1.5 | 27 |
| 17 | Accurate dispensing system for single oocytes using air ejection. Biomicrofluidics, 2013, 7, 054113. | 1.2 | 26 |
| 18 | On-Chip Tunable Cell Rotation Using Acoustically Oscillating Asymmetrical Microstructures. Micromachines, 2018, 9, 596. | 1.4 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Untethered Octopusâ€Inspired Millirobot Actuated by Regular Tetrahedron Arranged Magnetic Field. Advanced Intelligent Systems, 2020, 2, 1900148. | 3.3 | 25 |
| 20 | Fabrication of graphene/polyimide nanocomposite-based hair-like airflow sensor via direct inkjet printing and electrical breakdown. Smart Materials and Structures, 2019, 28, 065028. | 1.8 | 24 |
| 21 | Microrobot with passive diamagnetic levitation for microparticle manipulations. Journal of Applied Physics, 2017, 122, . | 1.1 | 23 |
| 22 | Development of a Tactile and Slip Sensor with a Biomimetic Structure-enhanced Sensing Mechanism. Journal of Bionic Engineering, 2019, 16, 47-55. | 2.7 | 23 |
| 23 | Postoperative evaluation of tumours based on label-free acoustic separation of circulating tumour cells by microstreaming. Lab on A Chip, 2021, 21, 2721-2729. | 3.1 | 21 |
| 24 | Magnetically Actuated Cellâ€Robot System: Precise Control, Manipulation, and Multimode Conversion. Small, 2022, 18, e2105414. | 5.2 | 21 |
| 25 | Controlled propulsion of wheel-shape flaky microswimmers under rotating magnetic fields. Applied Physics Letters, 2019, 114, . | 1.5 | 20 |
| 26 | A Versatile Optoelectronic Tweezer System for Micro-Objects Manipulation: Transportation, Patterning, Sorting, Rotating and Storage. Micromachines, 2021, 12, 271. | 1.4 | 18 |
| 27 | Optimization of Nanoparticles for Smart Drug Delivery: A Review. Nanomaterials, 2021, 11, 2790. | 1.9 | 18 |
| 28 | Versatile acoustic manipulation of micro-objects using mode-switchable oscillating bubbles: transportation, trapping, rotation, and revolution. Lab on A Chip, 2021, 21, 4760-4771. | 3.1 | 16 |
| 29 | Manipulating Microrobots Using Balanced Magnetic and Buoyancy Forces. Micromachines, 2018, 9, 50. | 1.4 | 15 |
| 30 | Deformable ferrofluid microrobot with omnidirectional self-adaptive mobility. Journal of Applied Physics, 2022, 131, . | 1.1 | 15 |
| 31 | Interaction between positive and negative dielectric microparticles/microorganism in optoelectronic tweezers. Lab on A Chip, 2021, 21, 4379-4389. | 3.1 | 13 |
| 32 | On-demand Production of Emulsion Droplets Over a Wide Range of Sizes. Advanced Robotics, 2010, 24, 2005-2018. | 1.1 | 12 |
| 33 | Cell Injection Millirobot Development and Evaluation in Microfluidic Chip. Micromachines, 2018, 9, 590. | 1.4 | 12 |
| 34 | Electrical Breakdownâ€Induced Tunable Piezoresistivity in Graphene/Polyimide Nanocomposites for Flexible Force Sensor Applications. Advanced Materials Technologies, 2018, 3, 1800113. | 3.0 | 12 |
| 35 | Liquid transport with direction guidance and speed enhancement from gradient and magnetized micro-cilia surface. Applied Physics Letters, 2022, 120, . | 1.5 | 11 |
| 36 | Emerging Potential of Exosomal Non-coding RNA in Parkinsonâ€™s Disease: A Review. Frontiers in Aging Neuroscience, 2022, 14, 819836. | 1.7 | 10 |

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|---|---|---|---|
| 37 | Auto-CSC: A Transfer Learning Based Automatic Cell Segmentation and Count Framework. Cyborg and Bionic Systems, 2022, 2022, . | 3.7 | 10 |
| 38 | Three dimensional rotation of bovine oocyte by using magnetically driven on-chip robot. , 2014, , . | | 9 |
| 39 | Mechanochromic response of the barbules in peacock tail feather. Optical Materials, 2018, 75, 74-78. | 1.7 | 9 |
| 40 | On-chip single particle loading and dispensing. , 2011, , . | | 8 |
| 41 | Magnetically Driven Bionic Millirobots with a Low-Delay Automated Actuation System for Bioparticles Manipulation. Micromachines, 2020, 11, 231. | 1.4 | 8 |
| 42 | Multi-Mode Motion Control of Reconfigurable Vortex-Shaped Microrobot Swarms for Targeted Tumor Therapy. IEEE Robotics and Automation Letters, 2022, 7, 3578-3583. | 3.3 | 8 |
| 43 | Untethered Octopusâ€Inspired Millirobot Actuated by Regular Tetrahedron Arranged Magnetic Field. Advanced Intelligent Systems, 2020, 2, 2070053. | 3.3 | 7 |
| 44 | Bone formation recovery with gold nanoparticle-induced M2 macrophage polarization in mice. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 38, 102457. | 1.7 | 7 |
| 45 | On-Demand and Size-Controlled Production of Droplets by Magnetically Driven Microtool. Journal of Robotics and Mechatronics, 2012, 24, 133-140. | 0.5 | 7 |
| 46 | Self-Driving 3-legged Crawling Prototype Capsule Robot with Orientation Controlled by External Magnetic Field. , 2018, , . | | 6 |
| 47 | The Design of 3-D Space Electromagnetic Control System for High-Precision and Fast-Response Control of Capsule Robot with 5-DOF. Lecture Notes in Computer Science, 2019, , 202-212. | 1.0 | 6 |
| 48 | A Magnetically Actuated Octopus-like Robot Capable of Moving in 3D Space. , 2019, , . | | 6 |
| 49 | A Bioinspired Flexible Film Fabricated by Surface-Tension-Assisted Replica Molding for Dynamic Control of Unidirectional Liquid Spreading. ACS Applied Materials & Interfaces, 2019, 11, 48505-48511. | 4.0 | 6 |
| 50 | Smooth enucleation of bovine oocyte by microrobot with local flow speed control in microchannel. , 2012, , . | | 5 |
| 51 | High performance magnetically driven microtools with ultrasonic vibration for biomedical innovations. , 2011, , . | | 4 |
| 52 | Magnetized Cell-robot Propelled by Magnetic Field for Cancer Killing. , 2020, , . | | 4 |
| 53 | On-demand and Size-controlled Production of emulsion droplets by magnetically driven microtool. , 2010, , . | | 3 |
| 54 | Morphology and Mechanical Properties of Vibratory Organs in the Leaf-cutting Ant (Atta cephalotes). Journal of Bionic Engineering, 2018, 15, 722-730. | 2.7 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Flexible Force Sensors: Electrical Breakdown-Induced Tunable Piezoresistivity in Graphene/Polyimide Nanocomposites for Flexible Force Sensor Applications (Adv. Mater. Technol. 8/2018). Advanced Materials Technologies, 2018, 3, 1870031. | 3.0 | 3 |
| 56 | High Position Accuracy and 5 Degree Freedom Magnetic Driven Capsule Robot. , 2019, , . | | 3 |
| 57 | 5 DOF Capsule Endoscopy with Wi-Fi based Video Transmission Module. , 2021, , . | | 3 |
| 58 | Non-contact Massively Parallel Manipulation of Micro-objects by Optoelectronic Tweezers*. , 2021, , . | | 3 |
| 59 | Parallel Manipulation and Flexible Assembly of Micro-Spiral via Optoelectronic Tweezers. Frontiers in Bioengineering and Biotechnology, 2022, 10, 868821. | 2.0 | 3 |
| 60 | On-demand and size-controlled production of emulsion droplet in microfludic devices. , 2010, , . | | 2 |
| 61 | Tunable alumina 2D photonic-crystal structures via biomineralization of peacock tail feathers. Optical Materials, 2018, 78, 490-494. | 1.7 | 2 |
| 62 | A Capsule-Type Device for Soft Tissue Cutting Using a Threadless Ballscrew Actuator. , 2019, , . | | 2 |
| 63 | Role of glucose in the repair of cell membrane damage during squeeze distortion of erythrocytes in microfluidic capillaries. Lab on A Chip, 2021, 21, 896-903. | 3.1 | 2 |
| 64 | Liftoff of a New Hovering Oscillating-wing Micro Aerial Vehicle. Journal of Bionic Engineering, 2021, 18, 649-661. | 2.7 | 2 |
| 65 | A portable acoustofluidic device for multifunctional cell manipulation and reconstruction. , 2021, , . | | 2 |
| 66 | Precise control of ferrofluid droplet robot in 3-D vascular model. , 2021, , . | | 2 |
| 67 | A novel and controllable cell-based microrobot in real vascular network for target tumor therapy. , 2020, , . | | 2 |
| 68 | A novel portable cell sonoporation device based on open-source acoustofluidics. , 2020, , . | | 2 |
| 69 | High precision magnetically driven microtools with ultrasonic vibration for enucleation of oocytes. , 2010, , . | | 1 |
| 70 | On-chip enucleation of oocyte by magnetically driven microtools with ultrasonic vibration. , 2011, , . | | 1 |
| 71 | Continuous enucleation of bovine oocyte by microrobot with local flow distribution control. , 2012, , . | | 1 |
| 72 | Field-controlled micro-nano manipulations and micro-nano robots. , 2021, , 201-225. | | 1 |

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|---|---|---|---|
| 73 | Reduction of Erythrocyte Fluid Adaptability Due to Cell Membrane Hardening Based on Single-Cell Analysis. Biochip Journal, 2021, 15, 90-99. | 2.5 | 1 |
| 74 | Precise Control of Magnetized Macrophage Cell Robot for Targeted Drug Delivery. , 2021, , . | | 1 |
| 75 | A Portable Remote Optoelectronic Tweezer System for Microobjects Manipulation. , 2021, , . | | 1 |
| 76 | Reducing the Guidewire Friction for Endovascular Interventional Surgery by Radial Micro-Vibration. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1020-1031. | 1.7 | 1 |
| 77 | Magnetically Actuated Cellâ€Robot System: Precise Control, Manipulation, and Multimode Conversion (Small 15/2022). Small, 2022, 18, . | 5.2 | 1 |
| 78 | Acoustic and magnetic hybrid actuated immune cell robot for target and kill cancer cells. , 2022, , . | | 1 |
| 79 | Formation of microdroplets utilizing hybrid magnetically driven microtool on a microfluidic chip. , 2009, , . | | 0 |
| 80 | On-demand generation of droplet in size over a wide range by microfluidic control. , 2009, , . | | 0 |
| 81 | On-chip Particle Sorting into Multiple Channels by Magnetically Driven Microtools. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 373-378. | 0.0 | 0 |
| 82 | High-speed single cell dispensing system. , 2011, , . | | 0 |
| 83 | Automation of an on-chip cell mechanical characterization system for stiffness evaluation. , 2015, , . | | 0 |
| 84 | Newly Established Three Dimensional Magnetically Controlling System. , 2018, , . | | 0 |
| 85 | Cell Injection Microrobot Development and Evaluation in Microfluidic Chip. , 2018, , . | | 0 |
| 86 | Cell Injection Microrobot Development and Evaluation in Microfluidic Chip. , 2019, , . | | 0 |
| 87 | On-Chip Three-dimension Cell Rotation Using Whirling Flows Generated by Oscillating Asymmetrical Microstructures. , 2019, , . | | 0 |
| 88 | On-chip production of droplets with on-demand and size control. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 367-372. | 0.0 | 0 |
| 89 | Magnetized Cell-robot Propelled by Regular Tetrahedron Magnetic Actuation System. , 2019, , . | | 0 |
| 90 | 4 DOF High-speed Cell Manipulation Magnetic-tweezers and the Operating System Driven by Piezo Ceramics. , 2019, , . | | 0 |

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|---|---|---|---|
| 91 | Anticipating tumor metastasis by circulating tumor cells captured by acoustic microstreaming. , 2020, , . | | 0 |
| 92 | Transport and deposition structure of cell nano interface. , 2022, , 87-125. | | 0 |
| 93 | Functional micro-/nanoparticles based on interfacial biotemplated fabrication. , 2022, , 309-320. | | 0 |
| 94 | Bioinspired interfacial drag-increase structure enhancing force perception. , 2022, , 177-196. | | 0 |