

Fei Li

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

6,641
citations

101543

36
h-index

62596

80
g-index

93
all docs

93
docs citations

93
times ranked

8348
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Ball pen writing-without-ink: a truly simple and accessible method for sensitivity enhancement in lateral flow assays. RSC Advances, 2022, 12, 2068-2073. | 3.6 | 2 |
| 2 | High-Performance Curved Piezoelectric Single-Crystal Composites via 3D-Printing-Assisted Dice and Insert Technology for Underwater Acoustic Transducer Applications. ACS Applied Materials & Interfaces, 2022, 14, 8137-8145. | 8.0 | 12 |
| 3 | Breaking symmetry for piezoelectricity. Science, 2022, 375, 618-619. | 12.6 | 9 |
| 4 | Achieving both high electromechanical properties and temperature stability in textured PMN δ PT ceramics. Journal of the American Ceramic Society, 2022, 105, 3322-3330. | 3.8 | 18 |
| 5 | Piezoelectric ultrasound energy δ harvesting device for deep brain stimulation and analgesia applications. Science Advances, 2022, 8, eabk0159. | 10.3 | 55 |
| 6 | Ferroelectric crystals with giant electro-optic property enabling ultracompact Q-switches. Science, 2022, 376, 371-377. | 12.6 | 46 |
| 7 | A Novel Integrated Matrix Magnetics for Isolated Single-Stage DC δ DC Converter. IEEE Transactions on Power Electronics, 2022, 37, 12380-12390. | 7.9 | 5 |
| 8 | TCNQ-based organic cocrystal integrated red emission and n-type charge transport. Frontiers of Optoelectronics, 2022, 15, . | 3.7 | 5 |
| 9 | Recent Advances of Nanoelectrodes for Single-Cell Electroanalysis: From Extracellular, Intercellular to Intracellular. Journal of Analysis and Testing, 2022, 6, 178-192. | 5.1 | 9 |
| 10 | Enhanced Piezoelectric Properties and Improved Property Uniformity in Nd δ Doped PMN δ PT Relaxor Ferroelectric Single Crystals. Advanced Functional Materials, 2022, 32, . | 14.9 | 16 |
| 11 | In Situ and Quantitative Monitoring of Cardiac Tissues Using Programmable Scanning Electrochemical Microscopy. Analytical Chemistry, 2022, 94, 10515-10523. | 6.5 | 8 |
| 12 | DPA-MoS ₂ van der Waals Heterostructures for Ambipolar Transistor and Wavelength-dependent Photodetection. , 2022, 4, 1483-1492. | | 4 |
| 13 | Bacterial Cellulose Composite Solid Polymer Electrolyte With High Tensile Strength and Lithium Dendrite Inhibition for Long Life Battery. Energy and Environmental Materials, 2021, 4, 434-443. | 12.8 | 58 |
| 14 | A Three-Dimensional Paper-Based Isoelectric Focusing Device for Direct Analysis of Proteins in Physiological Samples. Analytical Chemistry, 2021, 93, 3959-3967. | 6.5 | 19 |
| 15 | Textured ferroelectric ceramics with high electromechanical coupling factors over a broad temperature range. Nature Communications, 2021, 12, 1414. | 12.8 | 71 |
| 16 | Investigating the Effect of Substrate Stiffness on the Redox State of Cardiac Fibroblasts Using Scanning Electrochemical Microscopy. Analytical Chemistry, 2021, 93, 5797-5804. | 6.5 | 11 |
| 17 | Analysis and improvement of positioning reliability and accuracy of theta pipette configuration for scanning ion conductance microscopy. Ultramicroscopy, 2021, 224, 113240. | 1.9 | 2 |
| 18 | Upconversion nanoparticles-based lateral flow immunoassay for point-of-care diagnosis of periodontitis. Sensors and Actuators B: Chemical, 2021, 334, 129673. | 7.8 | 32 |

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|----|---|------|-----------|
| 19 | Large, thermally stabilized and fatigue-resistant piezoelectric strain response in textured relaxor-PbTiO ₃ ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2008-2015. | 5.5 | 22 |
| 20 | A Portable Digital Loop-Mediated Isothermal Amplification Platform Based on Microgel Array and Hand-Held Reader. <i>ACS Sensors</i> , 2021, 6, 3564-3574. | 7.8 | 34 |
| 21 | Inverse Domain-Size Dependence of Piezoelectricity in Ferroelectric Crystals. <i>Advanced Materials</i> , 2021, 33, e2105071. | 21.0 | 17 |
| 22 | A Colorimetric Dermal Tattoo Biosensor Fabricated by Microneedle Patch for Multiplexed Detection of Health-Related Biomarkers. <i>Advanced Science</i> , 2021, 8, e2103030. | 11.2 | 65 |
| 23 | End-Capping π -Conjugated Naphthodithiophene Diimide (NDTI)-Based Triads with Noncovalent Intramolecular S \cdots A \cdots O Interactions: A Route towards High-Performance Solution-Processable Air-Stable n-Type Semiconductors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5573-5583. | 4.3 | 4 |
| 24 | Bi(Mg _{1/2} Zr _{1/2})O ₃ \leftrightarrow PbZrO ₃ \leftrightarrow PbTiO ₃ relaxor ferroelectric ceramics with large and temperature-insensitive electric field-induced strain response. <i>Journal of Materials Chemistry C</i> , 2021, 10, 337-345. | 5.5 | 5 |
| 25 | Spatially modulated stiffness on hydrogels for soft and stretchable integrated electronics. <i>Materials Horizons</i> , 2020, 7, 203-213. | 12.2 | 70 |
| 26 | Paper-based point-of-care immunoassays: Recent advances and emerging trends. <i>Biotechnology Advances</i> , 2020, 39, 107442. | 11.7 | 139 |
| 27 | Cell mechanical microenvironment for cell volume regulation. <i>Journal of Cellular Physiology</i> , 2020, 235, 4070-4081. | 4.1 | 22 |
| 28 | Grain-Oriented Ferroelectric Ceramics with Single-Crystal-like Piezoelectric Properties and Low Texture Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38415-38424. | 8.0 | 52 |
| 29 | An L012@PAni-PAAm hydrogel composite based-electrochemiluminescence biosensor for in situ detection of H ₂ O ₂ released from cardiomyocytes. <i>Electrochimica Acta</i> , 2020, 354, 136763. | 5.2 | 28 |
| 30 | Transparent Microcrystalline Cellulose/Polyvinyl Alcohol Paper as a New Platform for Three-Dimensional Cell Culture. <i>Analytical Chemistry</i> , 2020, 92, 14219-14227. | 6.5 | 13 |
| 31 | Cellulose-based sensors for metal ions detection. <i>Cellulose</i> , 2020, 27, 5477-5507. | 4.9 | 31 |
| 32 | Smart Glove Integrated with Tunable MWNTs/PDMS Fibers Made of a One-Step Extrusion Method for Finger Dexterity, Gesture, and Temperature Recognition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23764-23773. | 8.0 | 67 |
| 33 | Liquid Plasticine Integrated with Isoelectric Focusing for Miniaturized Protein Analysis. <i>Analytical Chemistry</i> , 2020, 92, 9048-9056. | 6.5 | 15 |
| 34 | Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications. <i>Nature Materials</i> , 2020, 19, 999-1005. | 27.5 | 347 |
| 35 | Recent advances of scanning electrochemical microscopy and scanning ion conductance microscopy for single-cell analysis. <i>Current Opinion in Electrochemistry</i> , 2020, 22, 178-185. | 4.8 | 35 |
| 36 | Effect of three-dimensional ECM stiffness on cancer cell migration through regulating cell volume homeostasis. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 459-465. | 2.1 | 20 |

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|----|--|------|-----------|
| 37 | Effect of Substrate Stiffness on Redox State of Single Cardiomyocyte: A Scanning Electrochemical Microscopy Study. <i>Analytical Chemistry</i> , 2020, 92, 4771-4779. | 6.5 | 16 |
| 38 | Transparent ferroelectric crystals with ultrahigh piezoelectricity. <i>Nature</i> , 2020, 577, 350-354. | 27.8 | 360 |
| 39 | A Hydrogel Microneedle Patch for Point-of-Care Testing Based on Skin Interstitial Fluid. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901201. | 7.6 | 138 |
| 40 | Sensitivity enhancement of lateral flow assay by embedding cotton threads in paper. <i>Cellulose</i> , 2019, 26, 8087-8099. | 4.9 | 22 |
| 41 | UV Radiation Cumulative Recording Based on Amorphous TiO ₂ Nanotubes. <i>ACS Sensors</i> , 2019, 4, 2429-2434. | 7.8 | 6 |
| 42 | Microchannel Stiffness and Confinement Jointly Induce the Mesenchymal-Amoeboid Transition of Cancer Cell Migration. <i>Nano Letters</i> , 2019, 19, 5949-5958. | 9.1 | 60 |
| 43 | A review on advances in methods for modification of paper supports for use in point-of-care testing. <i>Mikrochimica Acta</i> , 2019, 186, 521. | 5.0 | 82 |
| 44 | Constructing functionalized plasmonic gold/titanium dioxide nanosheets with small gold nanoparticles for efficient photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 94-103. | 9.4 | 122 |
| 45 | Mechanisms underpinning the ultrahigh piezoelectricity in Sm-doped 0.705Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.295PbTiO ₃ : Temperature-induced metastable local structure and field-induced polarization rotation. <i>Journal of Applied Physics</i> , 2019, 126, 075101. | 2.5 | 6 |
| 46 | Morphotropic phase boundary-like properties in a ferroelectric-paraelectric nanocomposite. <i>Journal of Applied Physics</i> , 2019, 126, . | 2.5 | 4 |
| 47 | Reversible Domain-Wall-Motion-Induced Low-Hysteretic Piezoelectric Response in Ferroelectrics. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15434-15440. | 3.1 | 9 |
| 48 | Lead-Free Bilayer Thick Films with Giant Electrocaloric Effect near Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23346-23352. | 8.0 | 32 |
| 49 | Imaging oxygen microenvironment in hydrogel microwell array. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 321-328. | 3.4 | 5 |
| 50 | A Portable Electrochemical Platform Integrated with a 3D AuNPs/CNTs Sponge for Point-of-Care Testing of Neurotransmitters. <i>Journal of the Electrochemical Society</i> , 2019, 166, B524-B531. | 2.9 | 9 |
| 51 | Paper-Based Electrochemical Biosensors for Point-of-Care Testing of Neurotransmitters. <i>Journal of Analysis and Testing</i> , 2019, 3, 19-36. | 5.1 | 30 |
| 52 | A portable and universal upconversion nanoparticle-based lateral flow assay platform for point-of-care testing. <i>Talanta</i> , 2019, 201, 126-133. | 5.5 | 104 |
| 53 | Giant piezoelectricity of Sm-doped Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. <i>Science</i> , 2019, 364, 264-268. | 12.6 | 479 |
| 54 | <i>In vitro</i> diagnosis of DNA methylation biomarkers with digital PCR in breast tumors. <i>Analyst</i> , 2018, 143, 3011-3020. | 3.5 | 17 |

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|----|--|------|-----------|
| 55 | Electrospin-coating of nitrocellulose membrane enhances sensitivity in nucleic acid-based lateral flow assay. <i>Analytica Chimica Acta</i> , 2018, 1009, 81-88. | 5.4 | 57 |
| 56 | Recent advances in siRNA delivery for cancer therapy using smart nanocarriers. <i>Drug Discovery Today</i> , 2018, 23, 900-911. | 6.4 | 87 |
| 57 | A continuous control mode with improved imaging rate for scanning ion conductance microscope (SICM). <i>Ultramicroscopy</i> , 2018, 190, 66-76. | 1.9 | 12 |
| 58 | The effect of substrate stiffness on cancer cell volume homeostasis. <i>Journal of Cellular Physiology</i> , 2018, 233, 1414-1423. | 4.1 | 20 |
| 59 | Hydrogel Electronics: Biofriendly, Stretchable, and Reusable Hydrogel Electronics as Wearable Force Sensors (Small 36/2018). <i>Small</i> , 2018, 14, 1870166. | 10.0 | 14 |
| 60 | 48V to 1V voltage regulator module with magnetic integration. , 2018, , . | | 0 |
| 61 | Liquid wicking behavior in paper-like materials: mathematical models and their emerging biomedical applications. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1. | 2.2 | 31 |
| 62 | Ferroelectrics: Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics (Adv. Funct. Mater. 37/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870262. | 14.9 | 67 |
| 63 | Pen-on-paper strategies for point-of-care testing of human health. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 50-64. | 11.4 | 47 |
| 64 | Multilayer Lead-free Ceramic Capacitors with Ultrahigh Energy Density and Efficiency. <i>Advanced Materials</i> , 2018, 30, e1802155. | 21.0 | 392 |
| 65 | Point-of-Care Periodontitis Testing: Biomarkers, Current Technologies, and Perspectives. <i>Trends in Biotechnology</i> , 2018, 36, 1127-1144. | 9.3 | 54 |
| 66 | Biofriendly, Stretchable, and Reusable Hydrogel Electronics as Wearable Force Sensors. <i>Small</i> , 2018, 14, e1801711. | 10.0 | 144 |
| 67 | Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , 2018, 28, 1801504. | 14.9 | 260 |
| 68 | Antiferroelectrics: Multilayer Lead-free Ceramic Capacitors with Ultrahigh Energy Density and Efficiency (Adv. Mater. 32/2018). <i>Advanced Materials</i> , 2018, 30, 1870240. | 21.0 | 23 |
| 69 | Lateral flow aptamer assay integrated smartphone-based portable device for simultaneous detection of multiple targets using upconversion nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 48-56. | 7.8 | 112 |
| 70 | Preparation and characterization of $\text{Pb}(\text{Lu}_{1/2}\text{Nb}_{1/2})\text{O}_3$ and $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ ternary ferroelectric ceramics with high phase transition temperatures. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5514-5523. | 3.8 | 13 |
| 71 | Paper: A promising material for human-friendly functional wearable electronics. <i>Materials Science and Engineering Reports</i> , 2017, 112, 1-22. | 31.8 | 128 |
| 72 | Advances and challenges of fully integrated paper-based point-of-care nucleic acid testing. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 93, 37-50. | 11.4 | 72 |

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|----|---|------|-----------|
| 73 | Functional and Biomimetic Materials for Engineering of the Three-Dimensional Cell Microenvironment. <i>Chemical Reviews</i> , 2017, 117, 12764-12850. | 47.7 | 582 |
| 74 | Pen-on-paper strategy for point-of-care testing: Rapid prototyping of fully written microfluidic biosensor. <i>Biosensors and Bioelectronics</i> , 2017, 98, 478-485. | 10.1 | 75 |
| 75 | Fe ₃ O ₄ Anisotropic Nanostructures in Hydrogels: Efficient Catalysts for the Rapid Removal of Organic Dyes from Wastewater. <i>ChemPhysChem</i> , 2016, 17, 1999-2007. | 2.1 | 19 |
| 76 | Multi-objective optimal design of high frequency probe for scanning ion conductance microscopy. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016, 29, 195-203. | 3.7 | 2 |
| 77 | Visualization of the electrocatalytic activity of three-dimensional MoSe ₂ @reduced graphene oxide hybrid nanostructures for oxygen reduction reaction. <i>Nano Research</i> , 2016, 9, 3795-3811. | 10.4 | 34 |
| 78 | Recent Advances in Pen-Based Writing Electronics and their Emerging Applications. <i>Advanced Functional Materials</i> , 2016, 26, 165-180. | 14.9 | 84 |
| 79 | Recent Developments of Three-Dimensional Paper-Based Electrochemical Devices for Cancer Cell Detection and Anticancer Drug Screening. <i>Current Pharmaceutical Biotechnology</i> , 2016, 17, 802-809. | 1.6 | 12 |
| 80 | Direct writing electrodes using a ball pen for paper-based point-of-care testing. <i>Analyst</i> , 2015, 140, 5526-5535. | 3.5 | 70 |
| 81 | Selective adsorption of metronidazole on conjugated microporous polymers. <i>Science China Chemistry</i> , 2015, 58, 1227-1234. | 8.2 | 18 |
| 82 | Characterization of local electrocatalytic activity of nanosheet-structured ZnCo ₂ O ₄ /carbon nanotubes composite for oxygen reduction reaction with scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2015, 178, 767-777. | 5.2 | 23 |
| 83 | Advances in paper-based point-of-care diagnostics. <i>Biosensors and Bioelectronics</i> , 2014, 54, 585-597. | 10.1 | 826 |
| 84 | new application of scanning electrochemical microscopy in characterization of hydrogel microwell arrays. <i>Scientia Sinica Chimica</i> , 2014, 44, 1814-1822. | 0.4 | 1 |
| 85 | Dextran-Based Self-Healing Hydrogels Formed by Reversible Diels-Alder Reaction under Physiological Conditions. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1464-1470. | 3.9 | 176 |
| 86 | Oligonucleotide-linked gold nanoparticle aggregates for enhanced sensitivity in lateral flow assays. <i>Lab on A Chip</i> , 2013, 13, 4352. | 6.0 | 157 |
| 87 | Macromol. Rapid Commun. 18/2013. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1500-1500. | 3.9 | 0 |
| 88 | Voltammetric Response on a Puller-Made Nanometer-Sized Electrode. <i>Electroanalysis</i> , 2013, 25, 787-792. | 2.9 | 2 |
| 89 | Flexible piezoelectric nanogenerators based on ZnO nanorods grown on common paper substrates. <i>Nanoscale</i> , 2012, 4, 6568. | 5.6 | 119 |
| 90 | Incorporation of Functionalized Palladium Nanoparticles within Ultrathin Nafion Films: A Nanostructured Composite for Electrolytic and Redox-Mediated Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2008, 18, 1685-1693. | 14.9 | 36 |

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|----|---|-----|-----------|
| 91 | Research on Computational Method of Fault Probability for New Product Development Based on Intelligence and Integration. , 2006, , . | | 0 |
| 92 | Tailoring the substituted position for high-efficiency charge transport ability and strong blue solid-state emission in a naphthalene derivative. Materials Chemistry Frontiers, 0, , . | 5.9 | 0 |