

Fei Li

List of Publications by Year in descending order

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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	Advances in paper-based point-of-care diagnostics. <i>Biosensors and Bioelectronics</i> , 2014, 54, 585-597.	10.1	826
2	Functional and Biomimetic Materials for Engineering of the Three-Dimensional Cell Microenvironment. <i>Chemical Reviews</i> , 2017, 117, 12764-12850.	47.7	582
3	Giant piezoelectricity of Sm-doped $\text{Pb}(\text{Mg}^{1/3}\text{Nb}^{2/3})\text{O}_3$ - PbTiO_3 single crystals. <i>Science</i> , 2019, 364, 264-268.	12.6	479
4	Multilayer Lead-Free Ceramic Capacitors with Ultrahigh Energy Density and Efficiency. <i>Advanced Materials</i> , 2018, 30, e1802155.	21.0	392
5	Transparent ferroelectric crystals with ultrahigh piezoelectricity. <i>Nature</i> , 2020, 577, 350-354.	27.8	360
6	Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications. <i>Nature Materials</i> , 2020, 19, 999-1005.	27.5	347
7	Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , 2018, 28, 1801504.	14.9	260
8	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
9	Oligonucleotide-linked gold nanoparticle aggregates for enhanced sensitivity in lateral flow assays. <i>Lab on A Chip</i> , 2013, 13, 4352.	6.0	157
10	Biofriendly, Stretchable, and Reusable Hydrogel Electronics as Wearable Force Sensors. <i>Small</i> , 2018, 14, e1801711.	10.0	144
11	Paper-based point-of-care immunoassays: Recent advances and emerging trends. <i>Biotechnology Advances</i> , 2020, 39, 107442.	11.7	139
12	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
13	Paper: A promising material for human-friendly functional wearable electronics. <i>Materials Science and Engineering Reports</i> , 2017, 112, 1-22.	31.8	128
14	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
15	Flexible piezoelectric nanogenerators based on ZnO nanorods grown on common paper substrates. <i>Nanoscale</i> , 2012, 4, 6568.	5.6	119
16	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
17	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
18	Recent advances in siRNA delivery for cancer therapy using smart nanocarriers. <i>Drug Discovery Today</i> , 2018, 23, 900-911.	6.4	87

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19	Recent Advances in Pen-Based Writing Electronics and their Emerging Applications. <i>Advanced Functional Materials</i> , 2016, 26, 165-180.	14.9	84
20	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
21	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
22	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
23	Textured ferroelectric ceramics with high electromechanical coupling factors over a broad temperature range. <i>Nature Communications</i> , 2021, 12, 1414.	12.8	71
24	Direct writing electrodes using a ball pen for paper-based point-of-care testing. <i>Analyst, The</i> , 2015, 140, 5526-5535.	3.5	70
25	Spatially modulated stiffness on hydrogels for soft and stretchable integrated electronics. <i>Materials Horizons</i> , 2020, 7, 203-213.	12.2	70
26	Ferroelectrics: Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics (<i>Adv. Funct. Mater.</i> 37/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870262.	14.9	67
27	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
28	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
29	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
30	Bacterial Cellulose Composite Solid Polymer Electrolyte With High Tensile Strength and Lithium Dendrite Inhibition for Long Life Battery. <i>Energy and Environmental Materials</i> , 2021, 4, 434-443.	12.8	58
31	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
32	Piezoelectric ultrasound energy harvesting device for deep brain stimulation and analgesia applications. <i>Science Advances</i> , 2022, 8, eabk0159.	10.3	55
33	Point-of-Care Periodontitis Testing: Biomarkers, Current Technologies, and Perspectives. <i>Trends in Biotechnology</i> , 2018, 36, 1127-1144.	9.3	54
34	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
35	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
36	Ferroelectric crystals with giant electro-optic property enabling ultracompact Q-switches. <i>Science</i> , 2022, 376, 371-377.	12.6	46

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37	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
38	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
39	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
40	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
41	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
42	Upconversion nanoparticles-based lateral flow immunoassay for point-of-care diagnosis of periodontitis. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129673.	7.8	32
43	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
44	Cellulose-based sensors for metal ions detection. <i>Cellulose</i> , 2020, 27, 5477-5507.	4.9	31
45	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
46	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
47	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
48	Antiferroelectrics: Multilayer Lead-Free Ceramic Capacitors with Ultrahigh Energy Density and Efficiency (<i>Adv. Mater.</i> 32/2018). <i>Advanced Materials</i> , 2018, 30, 1870240.	21.0	23
49	Sensitivity enhancement of lateral flow assay by embedding cotton threads in paper. <i>Cellulose</i> , 2019, 26, 8087-8099.	4.9	22
50	Cell mechanical microenvironment for cell volume regulation. <i>Journal of Cellular Physiology</i> , 2020, 235, 4070-4081.	4.1	22
51	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
52	The effect of substrate stiffness on cancer cell volume homeostasis. <i>Journal of Cellular Physiology</i> , 2018, 233, 1414-1423.	4.1	20
53	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
54	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

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55	A Three-Dimensional Paper-Based Isoelectric Focusing Device for Direct Analysis of Proteins in Physiological Samples. <i>Analytical Chemistry</i> , 2021, 93, 3959-3967.	6.5	19
56	Selective adsorption of metronidazole on conjugated microporous polymers. <i>Science China Chemistry</i> , 2015, 58, 1227-1234.	8.2	18
57	Achieving both high electromechanical properties and temperature stability in textured PMN δ PT ceramics. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3322-3330.	3.8	18
58	<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
59	Inverse Domain-Size Dependence of Piezoelectricity in Ferroelectric Crystals. <i>Advanced Materials</i> , 2021, 33, e2105071.	21.0	17
60	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
61	Enhanced Piezoelectric Properties and Improved Property Uniformity in Nd-Doped PMN δ PT Relaxor Ferroelectric Single Crystals. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	16
62	Liquid Plasticine Integrated with Isoelectric Focusing for Miniaturized Protein Analysis. <i>Analytical Chemistry</i> , 2020, 92, 9048-9056.	6.5	15
63	Hydrogel Electronics: Biofriendly, Stretchable, and Reusable Hydrogel Electronics as Wearable Force Sensors (Small 36/2018). <i>Small</i> , 2018, 14, 1870166.	10.0	14
64	Preparation and characterization of Pb(Lu $_{1/2}$ Nb $_{1/2}$)O $_3$ –Pb(In $_{1/2}$ Nb $_{1/2}$)O $_3$ –PbTiO $_3$ ternary ferroelectric ceramics with high phase transition temperatures. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5514-5523.	3.8	13
65	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
66	A continuous control mode with improved imaging rate for scanning ion conductance microscope (SICM). <i>Ultramicroscopy</i> , 2018, 190, 66-76.	1.9	12
67	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
68	High-Performance Curved Piezoelectric Single-Crystal Composites via 3D-Printing-Assisted Dice and Insert Technology for Underwater Acoustic Transducer Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8137-8145.	8.0	12
69	Investigating the Effect of Substrate Stiffness on the Redox State of Cardiac Fibroblasts Using Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2021, 93, 5797-5804.	6.5	11
70	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
71	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
72	Breaking symmetry for piezoelectricity. <i>Science</i> , 2022, 375, 618-619.	12.6	9

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73	Recent Advances of Nanoelectrodes for Single-Cell Electroanalysis: From Extracellular, Intercellular to Intracellular. <i>Journal of Analysis and Testing</i> , 2022, 6, 178-192.	5.1	9
74	In Situ and Quantitative Monitoring of Cardiac Tissues Using Programmable Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2022, 94, 10515-10523.	6.5	8
75	UV Radiation Cumulative Recording Based on Amorphous TiO ₂ Nanotubes. <i>ACS Sensors</i> , 2019, 4, 2429-2434.	7.8	6
76	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
77	Imaging oxygen microenvironment in hydrogel microwell array. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 321-328.	3.4	5
78	Bi(Mg _{1/2} Zr _{1/2})O ₃ –PbZrO ₃ –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
79	A Novel Integrated Matrix Magnetics for Isolated Single-Stage DC–DC Converter. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 12380-12390.	7.9	5
80	TCNQ-based organic cocrystal integrated red emission and n-type charge transport. <i>Frontiers of Optoelectronics</i> , 2022, 15, .	3.7	5
81	Morphotropic phase boundary-like properties in a ferroelectric-paraelectric nanocomposite. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	4
82	End-Capping ĩ-Conjugated Naphthodithiophene Diimide (NDTI)-Based Triads with Noncovalent Intramolecular S–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
83	DPA-MoS ₂ van der Waals Heterostructures for Ambipolar Transistor and Wavelength-dependent Photodetection. , 2022, 4, 1483-1492.		4
84	Voltammetric Response on a Puller–Made Nanometer–Sized Electrode. <i>Electroanalysis</i> , 2013, 25, 787-792.	2.9	2
85	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
86	Analysis and improvement of positioning reliability and accuracy of theta pipette configuration for scanning ion conductance microscopy. <i>Ultramicroscopy</i> , 2021, 224, 113240.	1.9	2
87	Ball pen writing-without-ink: a truly simple and accessible method for sensitivity enhancement in lateral flow assays. <i>RSC Advances</i> , 2022, 12, 2068-2073.	3.6	2
88	new application of scanning electrochemical microscopy in characterization of hydrogel microwell arrays. <i>Scientia Sinica Chimica</i> , 2014, 44, 1814-1822.	0.4	1
89	Research on Computational Method of Fault Probability for New Product Development Based on Intelligence and Integration. , 2006, , .		0
90	Macromol. Rapid Commun. 18/2013. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1500-1500.	3.9	0

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91	48V to 1V voltage regulator module with magnetic integration. , 2018, , .		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