

Lelun Jiang

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,097
citations

186265

28
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

1776
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous detection of glucose, uric acid and cholesterol using flexible microneedle electrode array-based biosensor and multi-channel portable electrochemical analyzer. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 102-110.	7.8	136
2	A Smartphone-Based Sensing System for On-Site Quantitation of Multiple Heavy Metal Ions Using Fluorescent Carbon Nanodots-Based Microarrays. <i>ACS Sensors</i> , 2020, 5, 870-878.	7.8	127
3	4D Printing of Magnetoactive Soft Materials for On-Demand Magnetic Actuation Transformation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4174-4184.	8.0	108
4	A Fully Integrated Closed-Loop System Based on Mesoporous Microneedles-Iontophoresis for Diabetes Treatment. <i>Advanced Science</i> , 2021, 8, e2100827.	11.2	91
5	Rapid fabrication of microneedles using magnetorheological drawing lithography. <i>Acta Biomaterialia</i> , 2018, 65, 283-291.	8.3	89
6	Additive Manufacturing of Honeybee-Inspired Microneedle for Easy Skin Insertion and Difficult Removal. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29338-29346.	8.0	80
7	Fabrication of a Ti porous microneedle array by metal injection molding for transdermal drug delivery. <i>PLoS ONE</i> , 2017, 12, e0172043.	2.5	80
8	Laser Direct Structuring of Bioinspired Spine with Backward Microbarbs and Hierarchical Microchannels for Ultrafast Water Transport and Efficient Fog Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21080-21087.	8.0	77
9	Fabrication of gradient porous microneedle array by modified hot embossing for transdermal drug delivery. <i>Materials Science and Engineering C</i> , 2019, 96, 576-582.	7.3	76
10	A touch-actuated glucose sensor fully integrated with microneedle array and reverse iontophoresis for diabetes monitoring. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114026.	10.1	71
11	A 3D printed smartphone optosensing platform for point-of-need food safety inspection. <i>Analytica Chimica Acta</i> , 2017, 966, 81-89.	5.4	64
12	A smartphone-based quantitative detection device integrated with latex microsphere immunochromatography for on-site detection of zearalenone in cereals and feed. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 170-179.	7.8	63
13	Flexible microneedle array electrode using magnetorheological drawing lithography for bio-signal monitoring. <i>Sensors and Actuators A: Physical</i> , 2017, 268, 38-45.	4.1	62
14	Recent advances of microneedles used towards stimuli-responsive drug delivery, disease theranostics, and bioinspired applications. <i>Chemical Engineering Journal</i> , 2021, 426, 130561.	12.7	58
15	Fabrication of Micro-Needle Electrodes for Bio-Signal Recording by a Magnetization-Induced Self-Assembly Method. <i>Sensors</i> , 2016, 16, 1533.	3.8	54
16	Cactus-Inspired Conical Spines with Oriented Microbarbs for Efficient Fog Harvesting. <i>Advanced Materials Technologies</i> , 2019, 4, 1900727.	5.8	53
17	Smartphone-powered iontophoresis-microneedle array patch for controlled transdermal delivery. <i>Microsystems and Nanoengineering</i> , 2020, 6, 112.	7.0	52
18	Iontophoresis-driven porous microneedle array patch for active transdermal drug delivery. <i>Acta Biomaterialia</i> , 2021, 121, 349-358.	8.3	51

#	ARTICLE	IF	CITATIONS
19	Fabrication of a Micro-Needle Array Electrode by Thermal Drawing for Bio-Signals Monitoring. <i>Sensors</i> , 2016, 16, 908.	3.8	47
20	Effect of honeybee stinger and its microstructured barbs on insertion and pull force. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 68, 173-179.	3.1	45
21	Aluminum nanopyramid array with tunable ultraviolet-“visible”-infrared wavelength plasmon resonances for rapid detection of carbohydrate antigen 199. <i>Biosensors and Bioelectronics</i> , 2016, 79, 500-507.	10.1	42
22	Point-of-need detection of microcystin-LR using a smartphone-controlled electrochemical analyzer. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 132-140.	7.8	40
23	Touch-actuated microneedle array patch for closed-loop transdermal drug delivery. <i>Drug Delivery</i> , 2018, 25, 1728-1739.	5.7	39
24	A Mini Review of Microneedle Array Electrode for Bio-Signal Recording: A Review. <i>IEEE Sensors Journal</i> , 2020, 20, 577-590.	4.7	39
25	Rapidly Fabricated Microneedle Arrays Using Magnetorheological Drawing Lithography for Transdermal Drug Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5506-5513.	5.2	38
26	Programmable Transformation and Controllable Locomotion of Magnetoactive Soft Materials with 3D-Patterned Magnetization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58179-58190.	8.0	37
27	Intelligent wireless theranostic contact lens for electrical sensing and regulation of intraocular pressure. <i>Nature Communications</i> , 2022, 13, 2556.	12.8	36
28	Recent Progress in Microneedles-Mediated Diagnosis, Therapy, and Theranostic Systems. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102547.	7.6	34
29	Slug-inspired Magnetic Soft Millirobot Fully Integrated with Triboelectric Nanogenerator for On-board Sensing and Self-powered Charging. <i>Nano Energy</i> , 2022, 99, 107367.	16.0	34
30	Fabrication of Tip-Hollow and Tip-Dissolvable Microneedle Arrays for Transdermal Drug Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2487-2494.	5.2	33
31	Solid-Liquid State Transformable Magnetorheological Millirobot. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30007-30020.	8.0	29
32	Magnetization-induced self-assembly method: Micro-needle array fabrication. <i>Journal of Materials Processing Technology</i> , 2016, 227, 251-258.	6.3	23
33	Magneto-Responsive Shutter for On-Demand Droplet Manipulation. <i>Advanced Science</i> , 2021, 8, e2103182.	11.2	22
34	Insertion and pull behavior of worker honeybee stinger. <i>Journal of Bionic Engineering</i> , 2016, 13, 303-311.	5.0	21
35	An integrative review on the applications of 3D printing in the field of in vitro diagnostics. <i>Chinese Chemical Letters</i> , 2022, 33, 2231-2242.	9.0	18
36	Fabrication of Composite Microneedle Array Electrode for Temperature and Bio-Signal Monitoring. <i>Sensors</i> , 2018, 18, 1193.	3.8	17

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37	Fabrication of Bendable Microneedle-Array Electrode by Magnetorheological Drawing Lithography for Electroencephalogram Recording. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8328-8334.	4.7	16
38	Magnetization-Induced Self-Assembling of Bendable Microneedle Arrays for Triboelectric Nanogenerators. Advanced Electronic Materials, 2019, 5, 1800785.	5.1	15
39	An intelligent nanomesh-reinforced graphene pressure sensor with an ultra large linear range. Journal of Materials Chemistry A, 2022, 10, 4858-4869.	10.3	14
40	3D Bioprinting of Living Materials for Structure-Dependent Production of Hyaluronic Acid. ACS Macro Letters, 2022, 11, 452-459.	4.8	14
41	Atomic-engineering Au-Ag nanoalloys for screening antimicrobial agents with low toxicity towards mammalian cells. Colloids and Surfaces B: Biointerfaces, 2021, 204, 111831.	5.0	13
42	Towards Improving the Quality of Electrophysiological Signal Recordings by Using Microneedle Electrode Arrays. IEEE Transactions on Biomedical Engineering, 2021, 68, 3327-3335.	4.2	12
43	Effect of Magnetic Field on Stability of Jet Motion in Electrospinning. Materials and Manufacturing Processes, 2016, 31, 1603-1607.	4.7	11
44	Fabrication of Magnetic Nanofibers by Needleless Electrospinning from a Self-Assembling Polymer Ferrofluid Cone Array. Nanomaterials, 2017, 7, 277.	4.1	7
45	Needleless electro spray of magnetic film from magnetization-induced cone array. Materials and Manufacturing Processes, 2018, 33, 1115-1120.	4.7	3
46	Enhanced Embolization Efficacy with the Embolic Microspheres Guided by the Aggregate Gradation Theory Through In Vitro and Simulation Evaluation. Cardiovascular Engineering and Technology, 2021, 12, 398-406.	1.6	3
47	Fog Harvesting System: Cactus-Inspired Conical Spines with Oriented Microbarbs for Efficient Fog Harvesting (Adv. Mater. Technol. 12/2019). Advanced Materials Technologies, 2019, 4, 1970068.	5.8	2
48	Magnetic field assisted laser fabrication and electrical characterizations of metal dry Bioelectrode with surface microstructures. Biomedical Microdevices, 2019, 21, 74.	2.8	1