

Bowei Li

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

3,154
citations

147801

31
h-index

149698

56
g-index

57
all docs

57
docs citations

57
times ranked

3237
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategies of molecular imprinting-based solid-phase extraction prior to chromatographic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 128, 115923.	11.4	313
2	Three-dimensional paper-based microfluidic chip device for multiplexed fluorescence detection of Cu ²⁺ and Hg ²⁺ ions based on ion imprinting technology. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 224-233.	7.8	189
3	Microvalve-actuated precise control of individual droplets in microfluidic devices. <i>Lab on A Chip</i> , 2009, 9, 1340.	6.0	188
4	A Three-dimensional Origami Paper-Based Device for Potentiometric Biosensing. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13033-13037.	13.8	142
5	Rotational Paper-Based Microfluidic-Chip Device for Multiplexed and Simultaneous Fluorescence Detection of Phenolic Pollutants Based on a Molecular-Imprinting Technique. <i>Analytical Chemistry</i> , 2018, 90, 11827-11834.	6.5	140
6	Greenificated Molecularly Imprinted Materials for Advanced Applications. <i>Advanced Materials</i> , 2022, 34, .	21.0	140
7	Quantum Dot-Based Molecularly Imprinted Polymers on Three-Dimensional Origami Paper Microfluidic Chip for Fluorescence Detection of Phycocyanin. <i>ACS Sensors</i> , 2017, 2, 243-250.	7.8	123
8	The strategy of antibody-free biomarker analysis by in-situ synthesized molecularly imprinted polymers on movable valve paper-based device. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111533.	10.1	120
9	ZnSe quantum dot based ion imprinting technology for fluorescence detecting cadmium and lead ions on a three-dimensional rotary paper-based microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127462.	7.8	102
10	A fast and low-cost spray method for prototyping and depositing surface-enhanced Raman scattering arrays on microfluidic paper based device. <i>Electrophoresis</i> , 2013, 34, 2162-2168.	2.4	101
11	Rotational paper-based electrochemiluminescence immunodevices for sensitive and multiplexed detection of cancer biomarkers. <i>Analytica Chimica Acta</i> , 2018, 1007, 33-39.	5.4	94
12	Improved assessment of accuracy and performance using a rotational paper-based device for multiplexed detection of heavy metals. <i>Talanta</i> , 2018, 178, 426-431.	5.5	86
13	Brushing, a simple way to fabricate SERS active paper substrates. <i>Analytical Methods</i> , 2014, 6, 2066-2071.	2.7	80
14	Low cost fabrication of microfluidic paper-based analytical devices with water-based polyurethane acrylate and their application for bacterial detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127213.	7.8	76
15	Ultrasensitive colorimetric detection of Cu ²⁺ ion based on catalytic oxidation of l-cysteine. <i>Biosensors and Bioelectronics</i> , 2015, 64, 81-87.	10.1	71
16	Molecularly imprinted polymers based materials and their applications in chromatographic and electrophoretic separations. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 146, 116504.	11.4	69
17	Deposition of CdTe quantum dots on microfluidic paper chips for rapid fluorescence detection of pesticide 2,4-D. <i>Analyst</i> , 2019, 144, 1282-1291.	3.5	68
18	Controlling Capillary-Driven Fluid Transport in Paper-Based Microfluidic Devices Using a Movable Valve. <i>Analytical Chemistry</i> , 2017, 89, 5707-5712.	6.5	64

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19	Portable paper-based device for quantitative colorimetric assays relying on light reflectance principle. <i>Electrophoresis</i> , 2014, 35, 1152-1159.	2.4	63
20	Fluorescent nanosensor designing via hybrid of carbon dots and post-imprinted polymers for the detection of ovalbumin. <i>Talanta</i> , 2020, 211, 120727.	5.5	53
21	A glutathione S-transferase from <i>Proteus mirabilis</i> involved in heavy metal resistance and its potential application in removal of Hg ²⁺ . <i>Journal of Hazardous Materials</i> , 2013, 261, 646-652.	12.4	51
22	Fluorescence detection of 2,4-dichlorophenoxyacetic acid by ratiometric fluorescence imaging on paper-based microfluidic chips. <i>Analyst</i> , 2020, 145, 963-974.	3.5	45
23	Integrated hand-powered centrifugation and paper-based diagnosis with blood-in/answer-out capabilities. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112282.	10.1	44
24	Pulling-Force Spinning Top for Serum Separation Combined with Paper-Based Microfluidic Devices in COVID-19 ELISA Diagnosis. <i>ACS Sensors</i> , 2021, 6, 2709-2719.	7.8	44
25	Surface-enhanced Raman scattering microfluidic sensor. <i>RSC Advances</i> , 2013, 3, 13015.	3.6	41
26	A rotary multi-positioned cloth/paper hybrid microfluidic device for simultaneous fluorescence sensing of mercury and lead ions by using ion imprinted technologies. <i>Journal of Hazardous Materials</i> , 2022, 428, 128165.	12.4	40
27	Parallel microfluidic networks for studying cellular response to chemical modulation. <i>Journal of Biotechnology</i> , 2007, 131, 286-292.	3.8	39
28	Hybrid Three Dimensionally Printed Paper-Based Microfluidic Platform for Investigating a Cell's Apoptosis and Intracellular Cross-Talk. <i>ACS Sensors</i> , 2020, 5, 464-473.	7.8	39
29	On-Off-On Fluorescent Chemosensors Based on N/P-Codoped Carbon Dots for Detection of Microcystin-LR. <i>ACS Applied Nano Materials</i> , 2021, 4, 6852-6860.	5.0	37
30	Improvement in Detection Limit for Lateral Flow Assay of Biomacromolecules by Test-Zone Pre-enrichment. <i>Scientific Reports</i> , 2020, 10, 9604.	3.3	36
31	Quantitative Polymerase Chain Reaction Using Infrared Heating on a Microfluidic Chip. <i>Analytical Chemistry</i> , 2012, 84, 2825-2829.	6.5	35
32	Surface-enhanced Raman scattering on a zigzag microfluidic chip: towards high-sensitivity detection of As(ⁱⁱⁱ) ions. <i>Analytical Methods</i> , 2014, 6, 4077-4082.	2.7	35
33	An Ion Imprinted Polymers Grafted Paper-based Fluorescent Sensor Based on Quantum Dots for Detection of Cu ²⁺ Ions. <i>Chinese Journal of Analytical Chemistry</i> , 2015, 43, 1499-1504.	1.7	33
34	Imaging of intracellular sulfane sulfur expression changes under hypoxic stress via a selenium-containing near-infrared fluorescent probe. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6637-6645.	5.8	30
35	Simple Way To Fabricate Novel Paper-Based Valves Using Plastic Comb Binding Spines. <i>ACS Sensors</i> , 2018, 3, 1789-1794.	7.8	30
36	Dual-Emissive Near-Infrared Carbon Dot-Based Ratiometric Fluorescence Sensor for Lysozyme. <i>ACS Applied Nano Materials</i> , 2022, 5, 1656-1663.	5.0	29

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37	Chemotherapy resistance research of lung cancer based on micro-fluidic chip system with flow medium. <i>Biomedical Microdevices</i> , 2010, 12, 325-332.	2.8	27
38	Functional ZnS:Mn(II) quantum dot modified with L-cysteine and 6-mercaptopnicotinic acid as a fluorometric probe for copper(II). <i>Mikrochimica Acta</i> , 2018, 185, 420.	5.0	24
39	A novel polymer-based nitrocellulose platform for implementing a multiplexed microfluidic paper-based enzyme-linked immunosorbent assay. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	7.0	23
40	Visualizing and evaluating mitochondrial cysteine via near-infrared fluorescence imaging in cells, tissues and in vivo under hypoxia/reperfusion stress. <i>Journal of Hazardous Materials</i> , 2021, 419, 126476.	12.4	20
41	A tetrahedral DNA nanostructure functionalized paper-based platform for ultrasensitive colorimetric mercury detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 362, 131830.	7.8	20
42	Micropumps actuated negative pressure injection for microchip electrophoresis. <i>Electrophoresis</i> , 2008, 29, 4906-4913.	2.4	19
43	An optical sensor for monitoring of dissolved oxygen based on phase detection. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 055502.	2.2	19
44	A self-powered rotating paper-based analytical device for sensing of thrombin. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130917.	7.8	19
45	A near-infrared fluorescent probe for sensitive detection and imaging of sulfane sulfur in living cells and <i>in vivo</i> . <i>Biomaterials Science</i> , 2018, 6, 672-682.	5.4	17
46	Microfluidic device for integrated restriction digestion reaction and resulting DNA fragment analysis. <i>Electrophoresis</i> , 2008, 29, 4956-4963.	2.4	13
47	Development of micropump-actuated negative pressure pinched injection for parallel electrophoresis on array microfluidic chip. <i>Electrophoresis</i> , 2009, 30, 3053-3057.	2.4	12
48	A ZnFe ₂ O ₄ -catalyzed segment imprinted polymer on a three-dimensional origami paper-based microfluidic chip for the detection of microcystin. <i>Analyst, The</i> , 2022, 147, 1060-1065.	3.5	11
49	A Three-Dimensional Origami Paper-Based Device for Potentiometric Biosensing. <i>Angewandte Chemie</i> , 2016, 128, 13227-13231.	2.0	8
50	Three dimensionally printed nitrocellulose-based microfluidic platform for investigating the effect of oxygen gradient on cells. <i>Analyst, The</i> , 2021, 146, 5255-5263.	3.5	8
51	A splicing model-based DNA computing approach on microfluidic chip. <i>Electrophoresis</i> , 2009, 30, 3514-3518.	2.4	6
52	Hierarchical Au Nanoisland Arrays for Anticounterfeiting Surface-Enhanced Raman Scattering Stamps. <i>ACS Applied Nano Materials</i> , 2022, 5, 965-971.	5.0	6
53	Identification of the Sites of 4-Hydroxy-2-Nonenal and Neprilysin Adduction Using a Linear Trap Quadrupole Velos Pro-Orbitrap Elite Mass Spectrometer. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 133-139.	1.0	5
54	Aqueous two-phase systems evolved double-layer film for enzymatic activity preservation: A universal protein storage strategy for paper based microdevice. <i>Analytica Chimica Acta</i> , 2022, 1197, 339540.	5.4	3

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55	A Cost-Effective In Situ Zooplankton Monitoring System Based on Novel Illumination Optimization. Sensors, 2020, 20, 3471.	3.8	2
56	Synthesis and evaluation of fosfomycin group end-capped packing materials for hydrophilic interaction liquid chromatography. Journal of Chromatography A, 2021, 1656, 462529.	3.7	2