

Bo Zheng

List of Publications by Year in descending order

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54
papers

2,841
citations

257450

24
h-index

168389

53
g-index

57
all docs

57
docs citations

57
times ranked

3214
citing authors

#	ARTICLE	IF	CITATIONS
1	Screening of Protein Crystallization Conditions on a Microfluidic Chip Using Nanoliter-Size Droplets. <i>Journal of the American Chemical Society</i> , 2003, 125, 11170-11171.	13.7	638
2	A Droplet-Based, Composite PDMS/Glass Capillary Microfluidic System for Evaluating Protein Crystallization Conditions by Microbatch and Vapor-Diffusion Methods with On-Chip X-Ray Diffraction. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2508-2511.	13.8	333
3	Formation of Droplets of Alternating Composition in Microfluidic Channels and Applications to Indexing of Concentrations in Droplet-Based Assays. <i>Analytical Chemistry</i> , 2004, 76, 4977-4982.	6.5	300
4	A Microfluidic Approach for Screening Submicroliter Volumes against Multiple Reagents by Using Preformed Arrays of Nanoliter Plugs in a Three-Phase Liquid/Liquid/Gas Flow. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2520-2523.	13.8	204
5	Using nanoliter plugs in microfluidics to facilitate and understand protein crystallization. <i>Current Opinion in Structural Biology</i> , 2005, 15, 548-555.	5.7	157
6	Formation of Arrayed Droplets by Soft Lithography and Two-Phase Fluid Flow, and Application in Protein Crystallization. <i>Advanced Materials</i> , 2004, 16, 1365-1368.	21.0	135
7	Measuring Rapid Enzymatic Kinetics by Electrochemical Method in Droplet-Based Microfluidic Devices with Pneumatic Valves. <i>Analytical Chemistry</i> , 2009, 81, 5840-5845.	6.5	128
8	Low-temperature fabrication of brown TiO ₂ with enhanced photocatalytic activities under visible light. <i>Chemical Communications</i> , 2016, 52, 2988-2991.	4.1	71
9	A PDMS viscometer for microliter Newtonian fluid. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1828-1834.	2.6	69
10	Nanoliter Dispensing Method by Degassed Poly(dimethylsiloxane) Microchannels and Its Application in Protein Crystallization. <i>Analytical Chemistry</i> , 2007, 79, 4924-4930.	6.5	64
11	Mechanochemical Regulated Origami with Tough Hydrogels by Ion Transfer Printing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9077-9084.	8.0	51
12	Constructing the Phase Diagram of an Aqueous Solution of Poly(<i>N</i> -isopropyl acrylamide) by Controlled Microevaporation in a Nanoliter Microchamber. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1363-1367.	3.9	44
13	Fast Self-Assembly Kinetics of Quantum Dots and a Dendrimeric Peptide Ligand. <i>Langmuir</i> , 2012, 28, 7962-7966.	3.5	43
14	Long-lived protein expression in hydrogel particles: towards artificial cells. <i>Chemical Science</i> , 2018, 9, 4275-4279.	7.4	41
15	Functionalized π Stacks of Hexabenzoperylene as a Platform for Chemical and Biological Sensing. <i>Chem</i> , 2018, 4, 1416-1426.	11.7	38
16	Patterning Hydrophobic Surfaces by Negative Microcontact Printing and Its Applications. <i>Small</i> , 2018, 14, e1802128.	10.0	35
17	Artificial Cells Capable of Long-Lived Protein Synthesis by Using Aptamer Grafted Polymer Hydrogel. <i>ACS Synthetic Biology</i> , 2020, 9, 76-83.	3.8	33
18	Measuring rapid kinetics by a potentiometric method in droplet-based microfluidic devices. <i>Chemical Communications</i> , 2012, 48, 1601-1603.	4.1	32

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19	Superhydrophobic Poly(dimethylsiloxane) via Surface-Initiated Polymerization with Ultralow Initiator Density. <i>Macromolecules</i> , 2008, 41, 6641-6645.	4.8	31
20	Functionalized graphene-based chemiresistive electronic nose for discrimination of disease-related volatile organic compounds. <i>Biosensors and Bioelectronics: X</i> , 2019, 1, 100016.	1.7	28
21	Electrochemical Switching of Plasmonic Colors Based on Polyaniline-Coated Plasmonic Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17733-17744.	8.0	28
22	A PDMS viscometer for assaying endoglucanase activity. <i>Analyst, The</i> , 2011, 136, 1222.	3.5	25
23	Accelerating the "On Water" Reaction: By Organic "Water Interface or By Hydrodynamic Effects?. <i>Langmuir</i> , 2015, 31, 13759-13763.	3.5	24
24	Cuprous Oxide Based Chemiresistive Electronic Nose for Discrimination of Volatile Organic Compounds. <i>ACS Sensors</i> , 2019, 4, 3051-3055.	7.8	20
25	Detection of single nucleotide polymorphism by measuring extension kinetics with T7 exonuclease mediated isothermal amplification. <i>Analyst, The</i> , 2018, 143, 116-122.	3.5	19
26	An ultralow background substrate for protein microarray technology. <i>Analyst, The</i> , 2015, 140, 5627-5633.	3.5	16
27	Tertiary Amines Differentiated from Primary and Secondary Amines by Active Ester-Functionalized Hexabenzoperylene in Field Effect Transistors. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1676-1680.	3.3	15
28	A microfluidic streaming potential analyzer for label-free DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 871-877.	7.8	13
29	A polydopamine patterned perfluoropolymer-based substrate for protein microarray applications. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 306-311.	7.8	13
30	A poly(dimethylsiloxane) viscometer for microliter power law fluids. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 115005.	2.6	12
31	Single-Stranded DNA Assisted Cell Penetrating Peptide "DNA Conjugation Strategy for Intracellular Imaging of Nucleases. <i>Analytical Chemistry</i> , 2016, 88, 11306-11309.	6.5	11
32	Mapping Phase Diagrams of Polymer Solutions by a Combination of Microfluidic Solution Droplets and Laser Light-Scattering Detection. <i>Macromolecules</i> , 2014, 47, 2496-2502.	4.8	10
33	A droplet-based microfluidic platform for kinetics-based detection of single nucleotide variation at room temperature with large discrimination factors. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 731-737.	7.8	10
34	Advances in Single-Cell Printing. <i>Micromachines</i> , 2022, 13, 80.	2.9	9
35	Rehydratable gel for rapid loading of nanoliter solution and its application in protein crystallization. <i>RSC Advances</i> , 2012, 2, 4857.	3.6	8
36	Single-Chain Polymers Achieved from Radical Polymerization under Single-Initiator Conditions. <i>Langmuir</i> , 2012, 28, 14954-14959.	3.5	8

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37	A Microreactor and Imaging Platform for Studying Chemical Oscillators. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6402-6408.	2.5	8
38	Blocking-free and self-contained immunoassay platform for one-step point-of-care testing. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112394.	10.1	8
39	A pneumatic valve controlled microdevice for bioanalysis. <i>Biomicrofluidics</i> , 2013, 7, 054116.	2.4	7
40	Measuring the adhesion strength of a thin film to a substrate by centrifugation. <i>RSC Advances</i> , 2014, 4, 60002-60006.	3.6	7
41	Immobilization of Proteins of Cell Extract to Hydrogel Networks Enhances the Longevity of Cell-Free Protein Synthesis and Supports Gene Networks. <i>ACS Synthetic Biology</i> , 2021, 10, 749-755.	3.8	7
42	Mapping Polymer Phase Diagram in Nanoliter Droplets. <i>Macromolecules</i> , 2011, 44, 686-689.	4.8	6
43	Photonic porous silicon-based hybrid particles by soft lithography. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1754-1758.	0.8	6
44	Porous polydimethylsiloxane monolith for protein digestion. <i>Journal of Materials Chemistry B</i> , 2018, 6, 824-829.	5.8	6
45	Bead-free digital immunoassays on polydopamine patterned perfluorinated surfaces. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130341.	7.8	5
46	A Double Emulsion-Based, Plastic-Glass Hybrid Microfluidic Platform for Protein Crystallization. <i>Micromachines</i> , 2015, 6, 1629-1644.	2.9	4
47	Facile synthesis of hierarchical Co ₃ O ₄ /MWCNT composites with enhanced acetone sensing property. <i>Ceramics International</i> , 2022, 48, 28419-28427.	4.8	4
48	Patterning Perfluorinated Surface with Graphene Oxide and the Microarray Applications. <i>Micromachines</i> , 2019, 10, 173.	2.9	2
49	Synchronization of Coupled Oscillators on a Two-Dimensional Plane. <i>ChemPhysChem</i> , 2016, 17, 2355-2359.	2.1	1
50	Stacking chip for quantitative bioanalysis. <i>Talanta</i> , 2017, 175, 483-487.	5.5	1
51	Novel Substrates for Microarrays. <i>Methods in Molecular Biology</i> , 2017, 1518, 19-28.	0.9	1
52	Rapid and room temperature detection of single nucleotide variation with enhanced discrimination by crowding assisted allele specific extension. <i>Chemical Communications</i> , 2019, 55, 12052-12055.	4.1	1
53	Cover Picture: A Droplet-Based, Composite PDMS/Glass Capillary Microfluidic System for Evaluating Protein Crystallization Conditions by Microbatch and Vapor-Diffusion Methods with On-Chip X-Ray Diffraction (<i>Angew. Chem. Int. Ed.</i> 19/2004). <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2455-2455.	13.8	0
54	Macromol. Rapid Commun. 16/2008. <i>Macromolecular Rapid Communications</i> , 2008, 29, n/a-n/a.	3.9	0