Bo Zheng

List of Publications by Year
in descending order

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	Advances in Single-Cell Printing. Micromachines, 2022, 13, 80.	2.9	9
2	Facile synthesis of hierarchical Co3O4/MWCNT composites with enhanced acetone sensing property. Ceramics International, 2022, 48, 28419-28427.	4.8	4
3	Immobilization of Proteins of Cell Extract to Hydrogel Networks Enhances the Longevity of Cell-Free Protein Synthesis and Supports Gene Networks. ACS Synthetic Biology, 2021, 10, 749-755.	3.8	7
4	Bead-free digital immunoassays on polydopamine patterned perfluorinated surfaces. Sensors and Actuators B: Chemical, 2021, 345, 130341.	7.8	5
5	Artificial Cells Capable of Long-Lived Protein Synthesis by Using Aptamer Grafted Polymer Hydrogel. ACS Synthetic Biology, 2020, 9, 76-83.	3.8	33
6	Blocking-free and self-contained immunoassay platform for one-step point-of-care testing. Biosensors and Bioelectronics, 2020, 165, 112394.	10.1	8
7	Electrochemical Switching of Plasmonic Colors Based on Polyaniline-Coated Plasmonic Nanocrystals. ACS Applied Materials & Interfaces, 2020, 12, 17733-17744.	8.0	28
8	Cuprous Oxide Based Chemiresistive Electronic Nose for Discrimination of Volatile Organic Compounds. ACS Sensors, 2019, 4, 3051-3055.	7.8	20
9	Rapid and room temperature detection of single nucleotide variation with enhanced discrimination by crowding assisted allele specific extension. Chemical Communications, 2019, 55, 12052-12055.	4.1	1
10	Functionalized graphene-based chemiresistive electronic nose for discrimination of disease-related volatile organic compounds. Biosensors and Bioelectronics: X, 2019, 1, 100016.	1.7	28
11	Patterning Perfluorinated Surface with Graphene Oxide and the Microarray Applications. Micromachines, 2019, 10, 173.	2.9	2
12	A polydopamine patterned perfluoropolymer-based substrate for protein microarray applications. Sensors and Actuators B: Chemical, 2019, 287, 306-311.	7.8	13
13	Tertiary Amines Differentiated from Primary and Secondary Amines by Active Esterâ€Functionalized Hexabenzoperylene in Field Effect Transistors. Chemistry - an Asian Journal, 2019, 14, 1676-1680.	3.3	15
14	Mechanochemical Regulated Origami with Tough Hydrogels by Ion Transfer Printing. ACS Applied Materials & Interfaces, 2018, 10, 9077-9084.	8.0	51
15	Long-lived protein expression in hydrogel particles: towards artificial cells. Chemical Science, 2018, 9, 4275-4279.	7.4	41
16	Porous polydimethylsiloxane monolith for protein digestion. Journal of Materials Chemistry B, 2018, 6, 824-829.	5.8	6
17	A microfluidic streaming potential analyzer for label-free DNA detection. Sensors and Actuators B: Chemical, 2018, 259, 871-877.	7.8	13
18	Functionalized Ï€ Stacks of Hexabenzoperylenes as a Platform for Chemical and Biological Sensing. CheM, 2018, 4, 1416-1426.	11.7	38

#	Article	IF	Citations
19	Detection of single nucleotide polymorphism by measuring extension kinetics with T7 exonuclease mediated isothermal amplification. Analyst, The, 2018, 143, 116-122.	3.5	19
20	Patterning Hydrophobic Surfaces by Negative Microcontact Printing and Its Applications. Small, 2018, 14, e1802128.	10.0	35
21	Stacking chip for quantitative bioanalysis. Talanta, 2017, 175, 483-487.	5.5	1
22	A droplet-based microfluidic platform for kinetics-based detection of single nucleotide variation at room temperature with large discrimination factors. Sensors and Actuators B: Chemical, 2017, 253, 731-737.	7.8	10
23	Novel Substrates for Microarrays. Methods in Molecular Biology, 2017, 1518, 19-28.	0.9	1
24	Synchronization of Coupled Oscillators on a Twoâ€Ðimensional Plane. ChemPhysChem, 2016, 17, 2355-2359.	2.1	1
25	Single-Stranded DNA Assisted Cell Penetrating Peptideâ€“DNA Conjugation Strategy for Intracellular Imaging of Nucleases. Analytical Chemistry, 2016, 88, 11306-11309.	6.5	11
26	Low-temperature fabrication of brown TiO₂ with enhanced photocatalytic activities under visible light. Chemical Communications, 2016, 52, 2988-2991.	4.1	71
27	A Double Emulsion-Based, Plastic-Glass Hybrid Microfluidic Platform for Protein Crystallization. Micromachines, 2015, 6, 1629-1644.	2.9	4
28	Accelerating the â€œOn Waterâ€•Reaction: By Organicâ€“Water Interface or By Hydrodynamic Effects?. Langmuir, 2015, 31, 13759-13763.	3.5	24
29	An ultralow background substrate for protein microarray technology. Analyst, The, 2015, 140, 5627-5633.	3.5	16
30	Measuring the adhesion strength of a thin film to a substrate by centrifugation. RSC Advances, 2014, 4, 60002-60006.	3.6	7
31	Mapping Phase Diagrams of Polymer Solutions by a Combination of Microfluidic Solution Droplets and Laser Light-Scattering Detection. Macromolecules, 2014, 47, 2496-2502.	4.8	10
32	A pneumatic valve controlled microdevice for bioanalysis. Biomicrofluidics, 2013, 7, 054116.	2.4	7
33	A Microreactor and Imaging Platform for Studying Chemical Oscillators. Journal of Physical Chemistry A, 2013, 117, 6402-6408.	2.5	8
34	Measuring rapid kinetics by a potentiometric method in droplet-based microfluidic devices. Chemical Communications, 2012, 48, 1601-1603.	4.1	32
35	Rehydratable gel for rapid loading of nanoliter solution and its application in protein crystallization. RSC Advances, 2012, 2, 4857.	3.6	8
36	Fast Self-Assembly Kinetics of Quantum Dots and a Dendrimeric Peptide Ligand. Langmuir, 2012, 28, 7962-7966.	3.5	43

#	Article	IF	Citations
37	Single-Chain Polymers Achieved from Radical Polymerization under Single-Initiator Conditions. Langmuir, 2012, 28, 14954-14959.	3.5	8
38	Mapping Polymer Phase Diagram in Nanoliter Droplets. Macromolecules, 2011, 44, 686-689.	4.8	6
39	A PDMS viscometer for assaying endoglucanase activity. Analyst, The, 2011, 136, 1222.	3.5	25
40	Photonic porous siliconâ€based hybrid particles by softâ€lithography. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1754-1758.	0.8	6
41	A poly(dimethylsiloxane) viscometer for microliter power law fluids. Journal of Micromechanics and Microengineering, 2009, 19, 115005.	2.6	12
42	Measuring Rapid Enzymatic Kinetics by Electrochemical Method in Droplet-Based Microfluidic Devices with Pneumatic Valves. Analytical Chemistry, 2009, 81, 5840-5845.	6.5	128
43	Constructing the Phase Diagram of an Aqueous Solution of Poly(Nâ€isopropyl acrylamide) by Controlled Microevaporation in a Nanoliter Microchamber. Macromolecular Rapid Communications, 2008, 29, 1363-1367.	3.9	44
44	Macromol. Rapid Commun. 16/2008. Macromolecular Rapid Communications, 2008, 29, n/a-n/a.	3.9	0
45	Superhydrophobic Poly(dimethylsiloxane) via Surface-Initiated Polymerization with Ultralow Initiator Density. Macromolecules, 2008, 41, 6641-6645.	4.8	31
46	Nanoliter Dispensing Method by Degassed Poly(dimethylsiloxane) Microchannels and Its Application in Protein Crystallization. Analytical Chemistry, 2007, 79, 4924-4930.	6.5	64
47	A PDMS viscometer for microliter Newtonian fluid. Journal of Micromechanics and Microengineering, 2007, 17, 1828-1834.	2.6	69
48	Using nanoliter plugs in microfluidics to facilitate and understand protein crystallization. Current Opinion in Structural Biology, 2005, 15, 548-555.	5.7	157
49	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. Angewandte Chemie - International Edition, 2005, 44, 2520-2523.	13.8	204
50	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. Angewandte Chemie - International Edition, 2004, 43, 2508-2511.	13.8	333
51	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 (Angew. Chem. Int. Ed. 19/2004). Angewandte Chemie - International Edition, 2004, 43, 2455-2455.	13.8	0
52	Formation of Arrayed Droplets by Soft Lithography and Two-Phase Fluid Flow, and Application in Protein Crystallization. Advanced Materials, 2004, 16, 1365-1368.	21.0	135
53	Formation of Droplets of Alternating Composition in Microfluidic Channels and Applications to Indexing of Concentrations in Droplet-Based Assays. Analytical Chemistry, 2004, 76, 4977-4982.	6.5	300
54	Screening of Protein Crystallization Conditions on a Microfluidic Chip Using Nanoliter-Size Droplets. Journal of the American Chemical Society, 2003, 125, 11170-11171.	13.7	638