

Zhibin Yan

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

223
citations

1040056

9
h-index

1058476

14
g-index

23
all docs

23
docs citations

23
times ranked

214
citing authors

#	ARTICLE	IF	CITATIONS
1	In-Channel Responsive Surface Wettability for Reversible and Multiform Emulsion Droplet Preparation and Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16934-16943.	8.0	32
2	Improving Electrophoretic Particle Motion Control in Electrophoretic Displays by Eliminating the Fringing Effect via Driving Waveform Design. <i>Micromachines</i> , 2018, 9, 143.	2.9	28
3	Droplet-Based Microfluidic Thermal Management Methods for High Performance Electronic Devices. <i>Micromachines</i> , 2019, 10, 89.	2.9	22
4	Promote anti- /de- frosting by suppressing directional ice bridging. <i>International Journal of Heat and Mass Transfer</i> , 2021, 165, 120609.	4.8	22
5	Deposition of colloidal particles in a microchannel at elevated temperatures. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 403-414.	2.2	17
6	Photothermal conversion of SiO ₂ @Au nanoparticles mediated by surface morphology of gold cluster layer. <i>RSC Advances</i> , 2020, 10, 33119-33128.	3.6	17
7	Rapid prototyping of single-layer microfluidic PDMS devices with abrupt depth variations under non-clean-room conditions by using laser ablation and UV-curable polymer. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	13
8	Versatility of the microencapsulation technique via integrating microfluidic T-Junction and interfacial polymerization in encapsulating different polyamines. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 604, 125097.	4.7	13
9	Shell Formation Mechanism for Direct Microencapsulation of Nonequilibrium Pure Polyamine Droplet. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22413-22423.	3.1	9
10	Particle directed dual-fluid flow driven by electrowetting for controllable multiway light valves. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	6
11	Self-Healing Flexible Conductive Film by Repairing Defects via Flowable Liquid Metal Droplets. <i>Micromachines</i> , 2019, 10, 113.	2.9	6
12	Flow-Field-Assisted Dielectrophoretic Microchips for High-Efficiency Sheathless Particle/Cell Separation with Dual Mode. <i>Analytical Chemistry</i> , 2021, 93, 7606-7615.	6.5	6
13	Process regulation for encapsulating pure polyamine via integrating microfluidic T-junction and interfacial polymerization. <i>Journal of Polymer Science</i> , 2020, 58, 1810-1824.	3.8	5
14	Hydrodynamic Effects on Particle Deposition in Microchannel Flows at Elevated Temperatures. <i>Journal of Heat Transfer</i> , 2018, 140, .	2.1	4
15	Intelligent droplet manipulation in electrowetting devices via capacitance-based sensing and actuation for self-adaptive digital microfluidics. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	4
16	Paper-based electrowetting devices fabricated with cellulose paper and paraffin wax. <i>Results in Physics</i> , 2021, 31, 105042.	4.1	4
17	A Self-generated Chemotaxis-inspired routing method for digital microfluidic cooling of hotspots in integrated circuits. <i>Energy Conversion and Management</i> , 2022, 266, 115808.	9.2	4
18	Kinetics of colloidal particle deposition in microfluidic systems under temperature gradients: experiment and modelling. <i>Soft Matter</i> , 2020, 16, 3649-3656.	2.7	3

#	ARTICLE	IF	CITATIONS
19	Fabrication and Property Regulation of Small-Size Polyamine Microcapsules via Integrating Microfluidic T-Junction and Interfacial Polymerization. <i>Materials</i> , 2021, 14, 1800.	2.9	3
20	Particulate Fouling and Mitigation Approach in Microchannel Heat Exchanger. , 2016, , .		2
21	Particle Deposition in Microfluidic Devices at Elevated Temperatures. , 0, , .		1
22	Two-dimensional colloidal particle assembly in ionic surfactant solutions under an oscillatory electric field. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 475302.	2.8	1
23	Photothermal Waveguide-Directed Microreactor for Enhanced Copper Ion Detection from Quantum Dots. <i>ACS Applied Nano Materials</i> , 2022, 5, 9179-9187.	5.0	1