

Likai Hou

List of Publications by Year in descending order

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36
papers

1,105
citations

361413

20
h-index

395702

33
g-index

37
all docs

37
docs citations

37
times ranked

1270
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbes vs. chemistry in the origin of the anaerobic gut lumen. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4170-4175.	7.1	176
2	High-Throughput Separation, Trapping, and Manipulation of Single Cells and Particles by Combined Dielectrophoresis at a Bipolar Electrode Array. Analytical Chemistry, 2018, 90, 11461-11469.	6.5	76
3	Continuous microfluidic mixing and the highly controlled nanoparticle synthesis using direct current-induced thermal buoyancy convection. Microfluidics and Nanofluidics, 2020, 24, 1.	2.2	58
4	Continuously Electrotriggered Core Coalescence of Double-Emulsion Drops for Microreactions. ACS Applied Materials & Interfaces, 2017, 9, 12282-12289.	8.0	54
5	A novel micromixer based on the alternating current-flow field effect transistor. Lab on A Chip, 2017, 17, 186-197.	6.0	53
6	Electrically controlled rapid release of actives encapsulated in double-emulsion droplets. Lab on A Chip, 2018, 18, 1121-1129.	6.0	47
7	Scaled particle focusing in a microfluidic device with asymmetric electrodes utilizing induced-charge electroosmosis. Lab on A Chip, 2016, 16, 2803-2812.	6.0	46
8	Large-Scale Single Particle and Cell Trapping based on Rotating Electric Field Induced-Charge Electroosmosis. Analytical Chemistry, 2016, 88, 11791-11798.	6.5	44
9	Sequential Coalescence Enabled Two-Step Microreactions in Triple-Core Double-Emulsion Droplets Triggered by an Electric Field. Small, 2017, 13, 1702188.	10.0	44
10	Electrocoalescence of paired droplets encapsulated in double-emulsion drops. Lab on A Chip, 2016, 16, 4313-4318.	6.0	37
11	Continuous Particle Trapping, Switching, and Sorting Utilizing a Combination of Dielectrophoresis and Alternating Current Electrothermal Flow. Analytical Chemistry, 2019, 91, 5729-5738.	6.5	37
12	In-plane microvortices micromixer-based AC electrothermal for testing drug induced death of tumor cells. Biomicrofluidics, 2016, 10, 064102.	2.4	35
13	An efficient micromixer actuated by induced-charge electroosmosis using asymmetrical floating electrodes. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	34
14	Microbial Nanoculture as an Artificial Microniche. Scientific Reports, 2016, 6, 30578.	3.3	30
15	Compound-Droplet-Pairs-Filled Hydrogel Microfiber for Electric-Field-Induced Selective Release. Small, 2019, 15, e1903098.	10.0	30
16	A dual-core double emulsion platform for osmolarity-controlled microreactor triggered by coalescence of encapsulated droplets. Biomicrofluidics, 2016, 10, 034111.	2.4	28
17	Electric Field-Induced Cutting of Hydrogel Microfibers with Precise Length Control for Micromotors and Building Blocks. ACS Applied Materials & Interfaces, 2018, 10, 40228-40237.	8.0	26
18	Tri-fluid mixing in a microchannel for nanoparticle synthesis. Lab on A Chip, 2019, 19, 2936-2946.	6.0	24

#	ARTICLE	IF	CITATIONS
19	Effect of vortex on mass transport and mixing in microcapillary channels. Chemical Engineering Journal, 2019, 362, 442-452.	12.7	24
20	Induced charge electro-osmotic particle separation. Nanoscale, 2019, 11, 6410-6421.	5.6	22
21	Bubble-filled silica microfibers from multiphase flows for lightweight composite fabrication. Chemical Engineering Journal, 2016, 288, 539-545.	12.7	21
22	Flexible Continuous Particle Beam Switching via External-Field-Reconfigurable Asymmetric Induced-Charge Electroosmosis. Analytical Chemistry, 2018, 90, 11376-11384.	6.5	19
23	A simple microfluidic method for one-step encapsulation of reagents with varying concentrations in double emulsion drops for nanoliter-scale reactions and analyses. Analytical Methods, 2017, 9, 2511-2516.	2.7	18
24	Flexible particle flow focusing in microchannel driven by droplet-directed induced-charge electroosmosis. Electrophoresis, 2018, 39, 597-607.	2.4	17
25	Osmolarity-controlled swelling behaviors of dual-cored double-emulsion drops. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	15
26	Continuous microfluidic fabrication of anisotropic microparticles for enhanced wastewater purification. Lab on A Chip, 2021, 21, 1517-1526.	6.0	13
27	Characterization of Particle Movement and High-Resolution Separation of Microalgal Cells via Induced-Charge Electroosmotic Advective Spiral Flow. Analytical Chemistry, 2021, 93, 1667-1676.	6.5	12
28	High-throughput and Multimodal Separation of Microbeads Using Cyclical Induced-charge Electro-osmotic Vortices and Its Application in Size Fractionation of Crumpled Graphene Oxide Balls. Applied Materials Today, 2020, 19, 100545.	4.3	10
29	A micro-needle induced strategy for preparation of monodisperse liquid metal droplets in glass capillary microfluidics. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	9
30	Flexible Particle Focusing and Switching in Continuous Flow via Controllable Thermal Buoyancy Convection. Analytical Chemistry, 2020, 92, 2778-2786.	6.5	9
31	Fabrication of syntactic foam fillers via manipulation of on-chip quasi concentric nanoparticle-shelled droplet templates. Lab on A Chip, 2020, 20, 4600-4610.	6.0	9
32	Microparticle separation using asymmetrical induced-charge electro-osmotic vortices on an arc-edge-based floating electrode. Analyst, The, 2019, 144, 5150-5163.	3.5	6
33	Flexible Microswimmer Manipulation in Multiple Microfluidic Systems Utilizing Thermal Buoyancy-Capillary Convection. Analytical Chemistry, 2021, 93, 2560-2569.	6.5	6
34	Effects of chip geometries on dielectrophoresis and electrorotation investigation. Chinese Journal of Mechanical Engineering (English Edition), 2014, 27, 103-110.	3.7	5
35	Eccentric magnetic microcapsule for on-demand transportation, release, and evacuation in microfabrication fluidic networks. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 599, 124905.	4.7	5
36	Microractions: Sequential Coalescence Enabled Two-Step Microractions in Triple-Core Double-Emulsion Droplets Triggered by an Electric Field (Small 46/2017). Small, 2017, 13, .	10.0	1