

Ye Tao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

1,136

citations

22

h-index

29

g-index

75

ext. papers

1,453

ext. citations

4.8

avg, IF

4.61

L-index

#	Paper	IF	Citations
69	Fluid pumping by liquid metal droplet utilizing ac electric field.. <i>Physical Review E</i> , 2022 , 105, 025102	2.4	2
68	A visual portable microfluidic experimental device with multiple electric field regulation functions.. <i>Lab on A Chip</i> , 2022 ,	7.2	2
67	Continuous-Flow Nanoparticle Trapping Driven by Hybrid Electrokinetics in Microfluidics. <i>Electrophoresis</i> , 2021 , 42, 939-949	3.6	8
66	Pumping of electrolyte with mobile liquid metal droplets driven by continuous electrowetting: A full-scaled simulation study considering surface-coupled electrocapillary two-phase flow. <i>Electrophoresis</i> , 2021 , 42, 950-966	3.6	7
65	Dielectrophoretic medium exchange around droplets for on-chip fabrication of layer-by-layer microcapsules. <i>Lab on A Chip</i> , 2021 , 21, 3352-3360	7.2	2
64	Flexible online in-droplet cell/synthetic particle concentration utilizing alternating current electrothermal-flow field-effect transistor. <i>Lab on A Chip</i> , 2021 , 21, 1987-1997	7.2	2
63	Self-powered AC electrokinetic microfluidic system based on triboelectric nanogenerator. <i>Nano Energy</i> , 2021 , 89, 106451	17.1	4
62	Small universal mechanical module driven by a liquid metal droplet. <i>Lab on A Chip</i> , 2021 , 21, 2771-2780	7.2	2
61	Three-Fluid Sequential Micromixing-Assisted Nanoparticle Synthesis Utilizing Alternating Current Electrothermal Flow. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12514-12524	3.9	3
60	Buoyancy-Free Janus Microcylinders as Mobile Microelectrode Arrays for Continuous Microfluidic Biomolecule Collection within a Wide Frequency Range: A Numerical Simulation Study. <i>Micromachines</i> , 2020 , 11,	3.3	5
59	Liquid metal droplet-enabled electrocapillary flow in biased alternating electric fields: a theoretical analysis from the perspective of induced-charge electrokinetics. <i>Journal of Micromechanics and Microengineering</i> , 2020 , 30, 085007	2	3
58	Multiple frequency electrothermal induced flow: theory and microfluidic applications. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 175304	3	8
57	Efficient particle and droplet manipulation utilizing the combined thermal buoyancy convection and temperature-enhanced rotating induced-charge electroosmotic flow. <i>Analytica Chimica Acta</i> , 2020 , 1096, 108-119	6.6	11
56	DNAzyme-powered nucleic acid release from solid supports. <i>Chemical Communications</i> , 2020 , 56, 647-650	9.8	3
55	Combined alternating current electrothermal and dielectrophoresis-induced tunable patterning to actuate on-chip microreactions and switching at a floating electrode. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127397	8.5	4
54	Continuous microfluidic mixing and the highly controlled nanoparticle synthesis using direct current-induced thermal buoyancy convection. <i>Microfluidics and Nanofluidics</i> , 2020 , 24, 1	2.8	28
53	A microscopic physical description of electrothermal-induced flow for control of ion current transport in microfluidics interfacing nanofluidics. <i>Electrophoresis</i> , 2019 , 40, 2683-2698	3.6	24

52	Efficient Micro/Nanoparticle Concentration using Direct Current-Induced Thermal Buoyancy Convection for Multiple Liquid Media. <i>Analytical Chemistry</i> , 2019 , 91, 4457-4465	7.8	12
51	Continuous Particle Trapping, Switching, and Sorting Utilizing a Combination of Dielectrophoresis and Alternating Current Electrothermal Flow. <i>Analytical Chemistry</i> , 2019 , 91, 5729-5738	7.8	25
50	Multifrequency Induced-Charge Electroosmosis. <i>Micromachines</i> , 2019 , 10,	3.3	1
49	Tri-fluid mixing in a microchannel for nanoparticle synthesis. <i>Lab on A Chip</i> , 2019 , 19, 2936-2946	7.2	13
48	An Experimental Study of 3D Electrode-Facilitated Particle Traffic Flow-Focusing Driven by Induced-Charge Electroosmosis. <i>Micromachines</i> , 2019 , 10,	3.3	1
47	A micro-needle induced strategy for preparation of monodisperse liquid metal droplets in glass capillary microfluidics. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	6
46	Electrically controlled rapid release of actives encapsulated in double-emulsion droplets. <i>Lab on A Chip</i> , 2018 , 18, 1121-1129	7.2	34
45	On traveling-wave field-effect flow control for simultaneous induced-charge electroosmotic pumping and mixing in microfluidics: physical perspectives and theoretical analysis. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 055004	2	10
44	Simulation analysis of rectifying microfluidic mixing with field-effect-tunable electrothermal induced flow. <i>Electrophoresis</i> , 2018 , 39, 779-793	3.6	12
43	On AC-Field-Induced Nonlinear Electroosmosis next to the Sharp Corner-Field-Singularity of Leaky Dielectric Blocks and Its Application in on-Chip Micro-Mixing. <i>Micromachines</i> , 2018 , 9,	3.3	24
42	On Developing Field-Effect-Tunable Nanofluidic Ion Diodes with Bipolar, Induced-Charge Electrokinetics. <i>Micromachines</i> , 2018 , 9,	3.3	5
41	Flexible particle flow-focusing in microchannel driven by droplet-directed induced-charge electroosmosis. <i>Electrophoresis</i> , 2018 , 39, 597-607	3.6	15
40	Dielectrophoretic separation with a floating-electrode array embedded in microfabricated fluidic networks. <i>Physics of Fluids</i> , 2018 , 30, 112003	4.4	18
39	A High-Throughput Electrokinetic Micromixer via AC Field-Effect Nonlinear Electroosmosis Control in 3D Electrode Configurations. <i>Micromachines</i> , 2018 , 9,	3.3	12
38	High-Throughput Separation, Trapping, and Manipulation of Single Cells and Particles by Combined Dielectrophoresis at a Bipolar Electrode Array. <i>Analytical Chemistry</i> , 2018 , 90, 11461-11469	7.8	42
37	Flexible Continuous Particle Beam Switching via External-Field-Reconfigurable Asymmetric Induced-Charge Electroosmosis. <i>Analytical Chemistry</i> , 2018 , 90, 11376-11384	7.8	15
36	Evolution on the Biophysical Fitness Landscape of an RNA Virus. <i>Molecular Biology and Evolution</i> , 2018 , 35, 2390-2400	8.3	13
35	Induced-charge electrokinetics in rotating electric fields: A linear asymptotic analysis. <i>Physics of Fluids</i> , 2018 , 30, 062006	4.4	22

34	Controllable rotating behavior of individual dielectric microrod in a rotating electric field. <i>Electrophoresis</i> , 2017 , 38, 1427-1433	3.6	15
33	Fluid pumping and cells separation by DC-biased traveling wave electroosmosis and dielectrophoresis. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	11
32	On controlling the flow behavior driven by induction electrohydrodynamics in microfluidic channels. <i>Electrophoresis</i> , 2017 , 38, 983-995	3.6	12
31	A simple microfluidic method for one-step encapsulation of reagents with varying concentrations in double emulsion drops for nanoliter-scale reactions and analyses. <i>Analytical Methods</i> , 2017 , 9, 2511-2516	3.2	12
30	Osmolarity-controlled swelling behaviors of dual-cored double-emulsion drops. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	12
29	A Simplified Microfluidic Device for Particle Separation with Two Consecutive Steps: Induced Charge Electro-osmotic Prefocusing and Dielectrophoretic Separation. <i>Analytical Chemistry</i> , 2017 , 89, 9583-9592	7.8	51
28	Control of two-phase flow in microfluidics using out-of-phase electroconvective streaming. <i>Physics of Fluids</i> , 2017 , 29, 112002	4.4	27
27	A universal design of field-effect-tunable microfluidic ion diode based on a gating cation-exchange nanoporous membrane. <i>Physics of Fluids</i> , 2017 , 29, 112001	4.4	27
26	Fluid Flow and Mixing Induced by AC Continuous Electrowetting of Liquid Metal Droplet. <i>Micromachines</i> , 2017 , 8, 119	3.3	14
25	Simulation Analysis of Improving Microfluidic Heterogeneous Immunoassay Using Induced Charge Electroosmosis on a Floating Gate. <i>Micromachines</i> , 2017 , 8,	3.3	9
24	Electrode Cooling Effect on Out-Of-Phase Electrothermal Streaming in Rotating Electric Fields. <i>Micromachines</i> , 2017 , 8,	3.3	8
23	A novel micromixer based on the alternating current-flow field effect transistor. <i>Lab on A Chip</i> , 2016 , 17, 186-197	7.2	30
22	Large-Scale Single Particle and Cell Trapping based on Rotating Electric Field Induced-Charge Electroosmosis. <i>Analytical Chemistry</i> , 2016 , 88, 11791-11798	7.8	28
21	Particle rotational trapping on a floating electrode by rotating induced-charge electroosmosis. <i>Biomicrofluidics</i> , 2016 , 10, 054103	3.2	18
20	Scaled particle focusing in a microfluidic device with asymmetric electrodes utilizing induced-charge electroosmosis. <i>Lab on A Chip</i> , 2016 , 16, 2803-12	7.2	37
19	A multifunctional resealable perfusion chip for cell culture and tissue engineering. <i>RSC Advances</i> , 2016 , 6, 27183-27190	3.7	5
18	Continuous separation of multiple size microparticles using alternating current dielectrophoresis in microfluidic device with acupuncture needle electrodes. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016 , 29, 325-331	2.5	8
17	Enhanced particle trapping performance of induced charge electroosmosis. <i>Electrophoresis</i> , 2016 , 37, 1326-36	3.6	19

16	A mix-and-read drop-based in vitro two-hybrid method for screening high-affinity peptide binders. <i>Scientific Reports</i> , 2016 , 6, 22575	4.9	8
15	In-plane microvortices micromixer-based AC electrothermal for testing drug induced death of tumor cells. <i>Biomicrofluidics</i> , 2016 , 10, 064102	3.2	29
14	A dual-core double emulsion platform for osmolarity-controlled microreactor triggered by coalescence of encapsulated droplets. <i>Biomicrofluidics</i> , 2016 , 10, 034111	3.2	20
13	On utilizing alternating current-flow field effect transistor for flexibly manipulating particles in microfluidics and nanofluidics. <i>Biomicrofluidics</i> , 2016 , 10, 034105	3.2	27
12	Electrocoalescence of paired droplets encapsulated in double-emulsion drops. <i>Lab on A Chip</i> , 2016 , 16, 4313-4318	7.2	28
11	Induced-charge electroosmotic trapping of particles. <i>Lab on A Chip</i> , 2015 , 15, 2181-91	7.2	70
10	Trapping and chaining self-assembly of colloidal polystyrene particles over a floating electrode by using combined induced-charge electroosmosis and attractive dipole-dipole interactions. <i>Soft Matter</i> , 2015 , 11, 8105-12	3.6	30
9	Rapid, targeted and culture-free viral infectivity assay in drop-based microfluidics. <i>Lab on A Chip</i> , 2015 , 15, 3934-40	7.2	43
8	Label-free single-cell protein quantification using a drop-based mix-and-read system. <i>Scientific Reports</i> , 2015 , 5, 12756	4.9	22
7	Artifact-Free Quantification and Sequencing of Rare Recombinant Viruses by Using Drop-Based Microfluidics. <i>ChemBioChem</i> , 2015 , 16, 2167-71	3.8	18
6	Isolation and Analysis of Rare Norovirus Recombinants from Coinfected Mice Using Drop-Based Microfluidics. <i>Journal of Virology</i> , 2015 , 89, 7722-34	6.6	25
5	AC Electrothermal Circulatory Pumping Chip for Cell Culture. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26792-801	9.5	40
4	A high-throughput drop microfluidic system for virus culture and analysis. <i>Journal of Virological Methods</i> , 2015 , 213, 111-7	2.6	19
3	Microwire formation based on dielectrophoresis of electroless gold plated polystyrene microspheres. <i>Chinese Physics B</i> , 2011 , 20, 057701	1.2	8
2	Manipulation of gold coated microspheres using electrorotation. <i>Science China Technological Sciences</i> , 2011 , 54, 643-649	3.5	4
1	Tuning the course of evolution on the biophysical fitness landscape of an RNA virus		1