

# Zhijian Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

216  
citations

933447

10  
h-index

1058476

14  
g-index

21  
all docs

21  
docs citations

21  
times ranked

199  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multichannel Inductive Sensor Based on Phase Division Multiplexing for Wear Debris Detection. <i>Micromachines</i> , 2019, 10, 246.	2.9	17
2	Electrokinetic instability in microchannel viscoelastic fluid flows with conductivity gradients. <i>Physics of Fluids</i> , 2019, 31, .	4.0	16
3	Surface-conduction enhanced dielectrophoretic-like particle migration in electric-field driven fluid flow through a straight rectangular microchannel. <i>Physics of Fluids</i> , 2017, 29, .	4.0	15
4	Insulatorâ€based dielectrophoretic focusing and trapping of particles in nonâ€Newtonian fluids. <i>Electrophoresis</i> , 2021, 42, 2154-2161.	2.4	15
5	Ionic Diode Based on an Asymmetricâ€Shaped Carbon Black Nanoparticle Membrane. <i>Advanced Functional Materials</i> , 2021, 31, 2104341.	14.9	15
6	Improving Sensitivity of a Micro Inductive Sensor for Wear Debris Detection with Magnetic Powder Surrounded. <i>Micromachines</i> , 2019, 10, 440.	2.9	14
7	Improving particle detection sensitivity of a microfluidic resistive pulse sensor by a novel electrokinetic flow focusing method. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	13
8	Zeta potentials of PDMS surfaces modified with poly(ethylene glycol) by physisorption. <i>Electrophoresis</i> , 2020, 41, 761-768.	2.4	13
9	Detecting zeta potential of polydimethylsiloxane (PDMS) in electrolyte solutions with atomic force microscope. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 116-123.	9.4	13
10	A Novel Multichannel Inductive Wear Debris Sensor Based on Time Division Multiplexing. <i>IEEE Sensors Journal</i> , 2021, 21, 11131-11139.	4.7	13
11	Microalgae separation by inertiaâ€enhanced pinched flow fractionation. <i>Electrophoresis</i> , 2021, 42, 2223-2229.	2.4	11
12	Insights into the impact of polydopamine modification on permeability and anti-fouling performance of forward osmosis membrane. <i>Chemosphere</i> , 2022, 291, 132744.	8.2	10
13	Joule heatingâ€enabled electrothermal enrichment of nanoparticles in insulatorâ€based dielectrophoretic microdevices. <i>Electrophoresis</i> , 2021, 42, 626-634.	2.4	9
14	Revisit of wallâ€induced lateral migration in particle electrophoresis through a straight rectangular microchannel: Effects of particle zeta potential. <i>Electrophoresis</i> , 2019, 40, 955-960.	2.4	8
15	Electrokinetic detection and separation of living algae in a microfluidic chip: implication for shipâ€™s ballast water analysis. <i>Environmental Science and Pollution Research</i> , 2021, 28, 22853-22863.	5.3	8
16	The Effects of Position on the Wear Debris Detection with Planar Inductor. <i>Sensors</i> , 2019, 19, 4961.	3.8	7
17	Dual-Emission Fluorescence Probe Based on CdTe Quantum Dots and Rhodamine B for Visual Detection of Mercury and Its Logic Gate Behavior. <i>Micromachines</i> , 2021, 12, 713.	2.9	7
18	Electrokinetic instabilities in co-flowing ferrofluid and buffer solutions with matched electric conductivities. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	6

#	ARTICLE	IF	CITATIONS
19	Interplay of induced charge electroosmosis and electrothermal flow in insulator-based dielectrophoresis. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	3
20	Fluid rheological effects on streaming dielectrophoresis in a postâ€array microchannel. <i>Electrophoresis</i> , 2022, 43, 717-723.	2.4	3
21	Probing zeta potential of glass in electrolyte solutions by colloidal probe technique. , 2021, , .		0