Guiren Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

41	829	623734	501196
papers	citations	14 h-index	28 g-index

42	42	42	1077
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of velocity fluctuations in microfluidics with simultaneously ultrahigh spatial and temporal resolution. Experiments in Fluids, 2016, 57, 1.	2.4	162
2	Separation of tumor cells with dielectrophoresis-based microfluidic chip. Biomicrofluidics, 2013, 7, 11803.	2.4	154
3	Dielectrophoretic separation of colorectal cancer cells. Biomicrofluidics, 2010, 4, 13204.	2.4	91
4	Microfluidic-assisted polymer-protein assembly to fabricate homogeneous functionalnanoparticles. Materials Science and Engineering C, 2020, 111, 110768.	7.3	43
5	Numerical analysis of electrokinetic transport in micro-nanofluidic interconnect preconcentrator in hydrodynamic flow. Microfluidics and Nanofluidics, 2009, 7, 683-696.	2.2	39
6	A novel far-field nanoscopic velocimetry for nanofluidics. Lab on A Chip, 2010, 10, 240-245.	6.0	36
7	On micro-electrokinetic scalar turbulence in microfluidics at a low Reynolds number. Lab on A Chip, 2016, 16, 1030-1038.	6.0	30
8	Microelectrokinetic turbulence in microfluidics at low Reynolds number. Physical Review E, 2016, 93, 013106.	2.1	23
9	Artificial Cellulosome Complex from the Selfâ€Assembly of Niâ€NTAâ€Functionalized Polymeric Micelles and Cellulases. ChemBioChem, 2019, 20, 1394-1399.	2.6	20
10	Rapid mixing by turbulent-like electrokinetic microflow. Chemical Engineering Science, 2017, 165, 113-121.	3.8	19
11	Measuring flow velocity distribution in microchannels using molecular tracers. Microfluidics and Nanofluidics, 2009, 7, 509-517.	2.2	18
12	Dielectrophoretic Separation of Prostate Cancer Cells. Technology in Cancer Research and Treatment, 2013, 12, 61-70.	1.9	17
13	A dynamic piezoelectric micropumping phenomenon. Microfluidics and Nanofluidics, 2010, 9, 385-396.	2.2	15
14	Ultrafast measurement of transient electroosmotic flow in microfluidics. Microfluidics and Nanofluidics, 2011, 11, 353-358.	2.2	15
15	AC Electrokinetic Fast Mixing in Non-Parallel Microchannels. Chemical Engineering Communications, 2017, 204, 190-197.	2.6	15
16	Study of Oscillating Electroosmotic Flows with High Temporal and Spatial Resolution. Analytical Chemistry, 2018, 90, 1652-1659.	6.5	13
17	Scaling of velocity and scalar structure functions in ac electrokinetic turbulence. Physical Review E, 2017, 95, 023111.	2.1	12
18	Studying compaction-decompaction of DNA molecules induced by surfactants. Biochemical and Biophysical Research Communications, 2018, 495, 2559-2565.	2.1	11

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19	Experimental investigations on fluorescence excitation and depletion of ATTO 390 dye. Optics and Laser Technology, 2013, 45, 723-725.	4.6	8
20	Current characteristic signals of aqueous solution transferring through microfluidic channel under non-continuous DC electric field. AIP Advances, 2014, 4, 107139.	1.3	8
21	Synthesis and photoluminescence enhancement of nano-PAA-ZnCl2 with controllable dimension and morphology. Applied Surface Science, 2016, 390, 122-130.	6.1	8
22	Large-Scale Flow in Micro Electrokinetic Turbulent Mixer. Micromachines, 2020, 11, 813.	2.9	8
23	Corrections on LIFPA velocity measurements in microchannel with moderate velocity fluctuations. Experiments in Fluids, 2015, 56, 1.	2.4	7
24	Transition from periodic to chaotic <scp>AC</scp> electroosmotic flows near electric double layer. AICHE Journal, 2021, 67, e17148.	3.6	7
25	A special three-layer step-index fiber for building compact STED systems. Scientific Reports, 2019, 9, 8455.	3.3	6
26	Cascade of turbulent energy and scalar variance in DC electrokinetic turbulence. Physica D: Nonlinear Phenomena, 2019, 399, 42-50.	2.8	5
27	Asymmetric temporal variation of oscillating AC electroosmosis with a steady pressure-driven flow. Experiments in Fluids, 2020, 61, 1.	2.4	5
28	Electrokinetic mixing of two fluids with equivalent conductivity. Chinese Journal of Chemical Engineering, 2022, 42, 256-260.	3.5	5
29	Mechanisms of rectangular groove-induced multiple-microdroplet coalescences. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 585-594.	3.4	4
30	Abnormal Rheological Phenomena in Newtonian Fluids in Electroosmotic Flows in a Nanocapillary. Langmuir, 2018, 34, 15203-15210.	3.5	4
31	Rapid AC Electrokinetic Micromixer with Electrically Conductive Sidewalls. Micromachines, 2022, 13, 34.	2.9	4
32	Current characteristics of»-DNA molecules/polystyrene nanoparticles in TBE buffer solution through micro/nanofluidic capillaries under DC electric field. Journal Physics D: Applied Physics, 2017, 50, 125401.	2.8	3
33	Experimental Investigations on Fluorescence Excitation and Depletion of Carbon Dots. Journal of Fluorescence, 2017, 27, 1435-1441.	2.5	3
34	Drug screening assay based on the interaction of intact Keap1 and Nrf2 proteins in cancer cells. Bioorganic and Medicinal Chemistry, 2019, 27, 92-99.	3.0	3
35	A Stable NanoPAA-ZnO/ZnCl₂ Composite with Variable 3D Structured Morphology and Sustained Superhydrophilicity. Langmuir, 2021, 37, 5457-5463.	3.5	3
36	Parametric study of the emission spectra and photobleaching time constants of a fluorescent dye in laser induced fluorescence photobleaching anemometer (LIFPA) applications. Experiments in Fluids, 2019, 60, 1.	2.4	2

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37	Counterâ€rotating vortex shedding generated by acoustic excitations in confined mixing layers. AIChE Journal, 2019, 65, e16577.	3.6	1
38	Fluorescent Nanoparticles for Stimulated Emission Depletion Microscopy. Journal of Nanoscience and Nanotechnology, 2020, 20, 2308-2315.	0.9	1
39	A tentative study of the transport of energy and other scalar quantities in forced turbulence driven by âˆ‡nA - type volume forces. Journal of Hydrodynamics, 2021, 33, 1271-1281.	3.2	1
40	Influence of concentration on distribution properties of stretched-DNA in the MEC studied with fluorescence imaging and drop shape analyzing. Colloids and Surfaces B: Biointerfaces, 2017, 151, 11-18.	5.0	0
41	Depletion of carbon dots in stimulated emission depletion microscopy developed with 405/532â€‰nm continuous-wave lasers. Journal of Modern Optics, 2022, 69, 427-435.	1.3	0