

Ran Peng

List of Publications by Citations

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Version: 2024-04-28

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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.

29
papers

421
citations

14
h-index

20
g-index

30
ext. papers

573
ext. citations

7.7
avg, IF

4.44
L-index

#	Paper	IF	Citations
29	Fighting COVID-19: Integrated Micro- and Nanosystems for Viral Infection Diagnostics. <i>Matter</i> , 2020 , 3, 628-651	12.7	52
28	Fabrication of polydimethylsiloxane (PDMS) nanofluidic chips with controllable channel size and spacing. <i>Lab on A Chip</i> , 2016 , 16, 3767-76	7.2	45
27	Enhancing the performance of paper-based electrochemical impedance spectroscopy nanobiosensors: An experimental approach. <i>Biosensors and Bioelectronics</i> , 2021 , 177, 112672	11.8	37
26	Electroosmotic flow in single PDMS nanochannels. <i>Nanoscale</i> , 2016 , 8, 12237-46	7.7	32
25	Effects of ionic concentration gradient on electroosmotic flow mixing in a microchannel. <i>Journal of Colloid and Interface Science</i> , 2015 , 440, 126-32	9.3	25
24	Separation of nanoparticles by a nano-orifice based DC-dielectrophoresis method in a pressure-driven flow. <i>Nanoscale</i> , 2016 , 8, 18945-18955	7.7	24
23	DC dielectrophoresis separation of marine algae and particles in a microfluidic chip. <i>Science China Chemistry</i> , 2012 , 55, 524-530	7.9	24
22	Effects of ion size, ion valence and pH of electrolyte solutions on EOF velocity in single nanochannels. <i>Analytica Chimica Acta</i> , 2019 , 1059, 68-79	6.6	22
21	Multifunctional liquid crystal polymer network soft actuators. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3390-3396	13	20
20	Detection of Individual Molecules and Ions by Carbon Nanotube-Based Differential Resistive Pulse Sensor. <i>Small</i> , 2018 , 14, e1800013	11	19
19	Detection and sizing of nanoparticles and DNA on PDMS nanofluidic chips based on differential resistive pulse sensing. <i>Nanoscale</i> , 2017 , 9, 5964-5974	7.7	15
18	Automatic particle detection and sorting in an electrokinetic microfluidic chip. <i>Electrophoresis</i> , 2013 , 34, 684-90	3.6	15
17	Fabrication of nanochannels on polystyrene surface. <i>Biomicrofluidics</i> , 2015 , 9, 024117	3.2	14
16	Reconfigurable multi-component micromachines driven by optoelectronic tweezers. <i>Nature Communications</i> , 2021 , 12, 5349	17.4	14
15	Electromagnetically controlled microfluidic chip for DNA extraction. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 75, 23-28	4.6	11
14	Ionotronics Based on Horizontally Aligned Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2020 , 30, 2003177	15.6	10
13	Electrokinetic motion of single nanoparticles in single PDMS nanochannels. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	8

12	Particle detection on microfluidic chips by differential resistive pulse sensing (RPS) method. <i>Talanta</i> , 2018 , 184, 418-428	6.2	7
11	Assembly of Topographical Micropatterns with Optoelectronic Tweezers. <i>Advanced Optical Materials</i> , 2019 , 7, 1900669	8.1	7
10	Surface-Segregation-Induced Nanopapillae on FDTS-Blended PDMS Film and Implications in Wettability, Adhesion, and Friction Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7476-7486	8.5	6
9	SPEEDS: A portable serological testing platform for rapid electrochemical detection of SARS-CoV-2 antibodies. <i>Biosensors and Bioelectronics</i> , 2022 , 197, 113762	11.8	4
8	Understanding Carbon Nanotube-Based Ionic Diodes: Design and Mechanism. <i>Small</i> , 2021 , 17, e2100383	11	3
7	Flexible Nonenzymatic Glucose Sensing with One-Step Laser-Fabricated Cu ₂ O/Cu Porous Structure. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100192	3.5	2
6	Temperature field model and control strategy in gravity casting process. <i>Review of Scientific Instruments</i> , 2019 , 90, 114904	1.7	2
5	Optical Printing of Conductive Silver on Ultrasoother Nanocellulose Paper for Flexible Electronics. <i>Advanced Engineering Materials</i> , 2101598	3.5	1
4	Influence of light pattern thickness on the manipulation of dielectric microparticles by optoelectronic tweezers. <i>Photonics Research</i> ,	6	1
3	Photoresponsive Biomimetic Soft Robots Enabled by Near-Infrared-Driven and Ultrarobust Sandwich-Structured Nanocomposite Films. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2100012	6	1
2	Photoresponsive Biomimetic Soft Robots Enabled by Near-Infrared-Driven and Ultrarobust Sandwich-Structured Nanocomposite Films. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2170067	6	
1	Microfluidic Vortices: On-Chip Rotation of <i>Caenorhabditis elegans</i> Using Microfluidic Vortices (Adv. Mater. Technol. 1/2021). <i>Advanced Materials Technologies</i> , 2021 , 6, 2170002	6.8	