Ran Peng

List of Publications by Year in Descending Order

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	SPEEDS: A portable serological testing platform for rapid electrochemical detection of SARS-CoV-2 antibodies. *Biosensors and Bioelectronics*, **2022**, 197, 113762	11.8	4
28	Flexible Nonenzymatic Glucose Sensing with One-Step Laser-Fabricated Cu2O/Cu Porous Structure. *Advanced Engineering Materials*, **2021**, 23, 2100192	3.5	2
27	Understanding Carbon Nanotube-Based Ionic Diodes: Design and Mechanism. *Small*, **2021**, 17, e2100383	11	3
26	Enhancing the performance of paper-based electrochemical impedance spectroscopy nanobiosensors: An experimental approach. *Biosensors and Bioelectronics*, **2021**, 177, 112672	11.8	37
25	Photoresponsive Biomimetic Soft Robots Enabled by Near-Infrared-Driven and Ultrarobust Sandwich-Structured Nanocomposite Films. *Advanced Intelligent Systems*, **2021**, 3, 2100012	6	1
24	Reconfigurable multi-component micromachines driven by optoelectronic tweezers. *Nature Communications*, **2021**, 12, 5349	17.4	14
23	Photoresponsive Biomimetic Soft Robots Enabled by Near-Infrared-Driven and Ultrarobust Sandwich-Structured Nanocomposite Films. *Advanced Intelligent Systems*, **2021**, 3, 2170067	6	
22	Microfluidic Vortices: On-Chip Rotation of Caenorhabditis elegans Using Microfluidic Vortices (Adv. Mater. Technol. 1/2021). *Advanced Materials Technologies*, **2021**, 6, 2170002	6.8	
21	Multifunctional liquid crystal polymer network soft actuators. *Journal of Materials Chemistry A*, **2020**, 8, 3390-3396	13	20
20	Fighting COVID-19: Integrated Micro- and Nanosystems for Viral Infection Diagnostics. *Matter*, **2020**, 3, 628-651	12.7	52
19	Ionotronics Based on Horizontally Aligned Carbon Nanotubes. *Advanced Functional Materials*, **2020**, 30, 2003177	15.6	10
18	Effects of ion size, ion valence and pH of electrolyte solutions on EOF velocity in single nanochannels. *Analytica Chimica Acta*, **2019**, 1059, 68-79	6.6	22
17	Assembly of Topographical Micropatterns with Optoelectronic Tweezers. *Advanced Optical Materials*, **2019**, 7, 1900669	8.1	7
16	Temperature field model and control strategy in gravity casting process. *Review of Scientific Instruments*, **2019**, 90, 114904	1.7	2
15	Detection of Individual Molecules and Ions by Carbon Nanotube-Based Differential Resistive Pulse Sensor. *Small*, **2018**, 14, e1800013	11	19
14	Surface-Segregation-Induced Nanopapillae on FDTS-Blended PDMS Film and Implications in Wettability, Adhesion, and Friction Behaviors. *ACS Applied Materials & Interfaces*, **2018**, 10, 7476-7486	9.5	6
13	Particle detection on microfluidic chips by differential resistive pulse sensing (RPS) method. *Talanta*, **2018**, 184, 418-428	6.2	7

12	Electrokinetic motion of single nanoparticles in single PDMS nanochannels. *Microfluidics and Nanofluidics*, **2017**, 21, 1	2.8	8
11	Detection and sizing of nanoparticles and DNA on PDMS nanofluidic chips based on differential resistive pulse sensing. *Nanoscale*, **2017**, 9, 5964-5974	7.7	15
10	Separation of nanoparticles by a nano-orifice based DC-dielectrophoresis method in a pressure-driven flow. *Nanoscale*, **2016**, 8, 18945-18955	7.7	24
9	Electroosmotic flow in single PDMS nanochannels. *Nanoscale*, **2016**, 8, 12237-46	7.7	32
8	Fabrication of polydimethylsiloxane (PDMS) nanofluidic chips with controllable channel size and spacing. *Lab on A Chip*, **2016**, 16, 3767-76	7.2	45
7	Electromagnetically controlled microfluidic chip for DNA extraction. *Measurement: Journal of the International Measurement Confederation*, **2015**, 75, 23-28	4.6	11
6	Effects of ionic concentration gradient on electroosmotic flow mixing in a microchannel. *Journal of Colloid and Interface Science*, **2015**, 440, 126-32	9.3	25
5	Fabrication of nanochannels on polystyrene surface. *Biomicrofluidics*, **2015**, 9, 024117	3.2	14
4	Automatic particle detection and sorting in an electrokinetic microfluidic chip. *Electrophoresis*, **2013**, 34, 684-90	3.6	15
3	DC dielectrophoresis separation of marine algae and particles in a microfluidic chip. *Science China Chemistry*, **2012**, 55, 524-530	7.9	24
2	Optical Printing of Conductive Silver on Ultrasmooth Nanocellulose Paper for Flexible Electronics. *Advanced Engineering Materials*,2101598	3.5	1
1	Influence of light pattern thickness on the manipulation of dielectric microparticles by optoelectronic tweezers. *Photonics Research*,	6	1