

Hong Yi

List of Publications by Year in descending order

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papers

416
citations

840119

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic Impedance Cytometer with Inertial Focusing and Liquid Electrodes for High-Throughput Cell Counting and Discrimination. <i>Analytical Chemistry</i> , 2017, 89, 3154-3161.	3.2	63
2	High-throughput inertial particle focusing in a curved microchannel: Insights into the flow-rate regulation mechanism and process model. <i>Biomicrofluidics</i> , 2013, 7, 44116.	1.2	46
3	Drastically Reduced Ion Mobility in a Nanopore Due to Enhanced Pairing and Collisions between Dehydrated Ions. <i>Journal of the American Chemical Society</i> , 2019, 141, 4264-4272.	6.6	46
4	Concentration-controlled particle focusing in spiral elastomeric inertial microfluidic devices. <i>Electrophoresis</i> , 2018, 39, 417-424.	1.3	41
5	Quantitative characterization of the focusing process and dynamic behavior of differently sized microparticles in a spiral microchannel. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 89-99.	1.0	35
6	Nanopore detection of DNA molecules in magnesium chloride solutions. <i>Nanoscale Research Letters</i> , 2013, 8, 245.	3.1	27
7	A low cost and quasi-commercial polymer film chip for high-throughput inertial cell isolation. <i>RSC Advances</i> , 2016, 6, 9734-9742.	1.7	25
8	Inexpensive, rapid fabrication of polymer-film microfluidic autoregulatory valve for disposable microfluidics. <i>Biomedical Microdevices</i> , 2017, 19, 21.	1.4	20
9	Detection of short single-strand DNA homopolymers with ultrathin carbon nanotubes. http://www.w3.org/1998/Math/MathML <math xmlns:mml="http://www.w3.org/1998/Math/MathML" > S _iN ₃ ₄ </math> nanopores. <i>Physical Review E</i> , 2015, 92, 022719.	0.8	16
10	Lattice Boltzmann numerical simulation and experimental research of dynamic flow in an expansion-contraction microchannel. <i>Biomicrofluidics</i> , 2013, 7, 34113.	1.2	13
11	A portable single-cell analysis system integrating hydrodynamic trapping with broadband impedance spectroscopy. <i>Science China Technological Sciences</i> , 2017, 60, 1707-1715.	2.0	12
12	Study on ultrasonic spray technology for the coating of vascular stent. <i>Science China Technological Sciences</i> , 2011, 54, 3358-3370.	2.0	11
13	Glucose sensing on screen-printed electrochemical electrodes based on porous graphene aerogel @prussian blue. <i>Biomedical Microdevices</i> , 2022, 24, 14.	1.4	10
14	Design of a multilayer Halbach permanent magnet for human finger NMR detection. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2017, 54, 315-327.	0.3	8
15	Separation of nanocolloids driven by dielectrophoresis: A molecular dynamics simulation. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1874-1881.	0.9	7
16	The design and fabrication of a low-field NMR probe based on a multilayer planar microcoil. <i>Microsystem Technologies</i> , 2014, 20, 419-425.	1.2	7
17	Wafer-level site-controlled growth of silicon nanowires by Cu pattern dewetting. <i>Nano Research</i> , 2015, 8, 2646-2653.	5.8	4
18	Low-field nuclear magnetic resonance spectrometer for non-invasive monitoring of fluctuations in blood glucose in the human finger. <i>Spectroscopy Letters</i> , 2018, 51, 395-401.	0.5	4

#	ARTICLE	IF	CITATIONS
19	Portable and Intelligent Urine Glucose Analyzer Based on a CdTe QDs@GOx Aerogel Circular Array Sensor. ACS Omega, 2021, 6, 32655-32662.	1.6	4
20	An NMR Relaxation Method of Characterizing Hydrogen-Bearing Crystalline Solid Phases in Hydrated Cement Paste. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	4
21	Research on critical technology of micro/nano bioparticles manipulation platform based on light-induced dielectrophoresis. Science in China Series D: Earth Sciences, 2009, 52, 2831-2839.	0.9	3
22	Optimization and experimental test of a miniature permanent magnet structure for a microfluidic magnetic resonance chip. International Journal of Applied Electromagnetics and Mechanics, 2013, 42, 479-489.	0.3	3
23	Directed transport and location-designated rotation of nanowires using ac electric fields. Microfluidics and Nanofluidics, 2014, 16, 237-246.	1.0	3
24	Imaging the condensation and evaporation of molecularly thin ethanol films with surface forces apparatus. Review of Scientific Instruments, 2014, 85, 013702.	0.6	2
25	A novel inversion method of 2D TD-NMR signals based on realizing unconstrained maximization of objective function. Journal of Magnetic Resonance, 2022, 337, 107168.	1.2	2
26	Wafer-lever Au Nanogap-Nanopore Fabricated by NEMS Technology. , 2015, , .		0
27	Optimized radio frequency coil for noninvasive magnetic resonance relaxation detection of human finger. Journal of Magnetic Resonance, 2022, 335, 107125.	1.2	0
28	A Portable Unilateral Nuclear Magnetic Resonance Magnet Designed for Breast Cancer Detection. , 2021, , .		0
29	A Low-Cost Low-Field Nuclear Magnetic Resonance Cryoporometry System for Nanopore Size Measurement. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-6.	2.4	0
30	Design of High Linearity and Low Power Gradient Coil Based on Magnetic Field Harmonic Analysis Method. Applied Magnetic Resonance, 0, , .	0.6	0