Yinghua Qiu

List of Publications by Year
in descending order

45 papers	801 citations	18 h-index (489802)	28 g-index (563245)
47 all docs	47 docs citations	47 times ranked	1040 citing authors

#	Article	IF	Citations
1	Field-enhanced water transport in sub-nanometer graphene nanopores. Desalination, 2022, 528, 115610.	4.0	10
2	Effective Charged Exterior Surfaces for Enhanced Ionic Diffusion through Nanopores under Salt Gradients. Journal of Physical Chemistry Letters, 2022, 13, 5669-5676.	2.1	17
3	High-performance nanofluidic osmotic power generation enabled by exterior surface charges under the natural salt gradient. Journal of Power Sources, 2021, 492, 229637.	4.0	21
4	Significantly Enhanced Performance of Nanofluidic Osmotic Power Generation by Slipping Surfaces of Nanopores. Journal of Physical Chemistry C, 2021, 125, 14195-14203.	1.5	18
5	Modulation of Ionic Current Rectification in Ultrashort Conical Nanopores. Analytical Chemistry, 2020, 92, 16188-16196.	3.2	48
6	Prewetting Polypropylene-Wood Pulp Fiber Composite Nonwoven Fabric for Oilâ€“Water Separation. ACS Applied Materials & Interfaces, 2020, 12, 46923-46932.	4.0	30
7	Electrochemical Generation of Individual Nanobubbles Comprising H₂, D₂, and HD. Langmuir, 2020, 36, 6073-6078.	1.6	11
8	Electrochemical Reduction of [Ni(Mebpy)₃]²⁺: Elucidation of the Redox Mechanism by Cyclic Voltammetry and Steadyâ€State Voltammetry in Low Ionic Strength Solutions. ChemElectroChem, 2020, 7, 1473-1479.	1.7	11
9	Visualization of Hydrogen Evolution at Individual Platinum Nanoparticles at a Buried Interface. Journal of the American Chemical Society, 2020, 142, 8890-8896.	6.6	40
10	Effects of Surface Trapping and Contact Ion Pairing on Ion Transport in Nanopores. Journal of Physical Chemistry C, 2019, 123, 15314-15322.	1.5	17
11	Photothermally-Assisted Lipid Bilayer Coating on a Sin Nanopore for High-Throughput Protein Channel Formation. Biophysical Journal, 2019, 116, 294a.	0.2	0
12	Drastically Reduced Ion Mobility in a Nanopore Due to Enhanced Pairing and Collisions between Dehydrated Ions. Journal of the American Chemical Society, 2019, 141, 4264-4272.	6.6	46
13	Abnormal Ionic-Current Rectification Caused by Reversed Electroosmotic Flow under Viscosity Gradients across Thin Nanopores. Analytical Chemistry, 2019, 91, 996-1004.	3.2	32
14	Nanopore Fabrication in Ultrathin HFO2 Membranes for Nanopore-Based DNA Sequencing. Biophysical Journal, 2018, 114, 179a.	0.2	1
15	Optimal design of graphene nanopores for seawater desalination. Journal of Chemical Physics, 2018, 148, 014703.	1.2	30
16	Viscosity and Conductivity Tunable Diode-Like Behavior for MESO- and Micropores. Biophysical Journal, 2018, 114, 304a-305a.	0.2	0
17	Deformability of Individual Cells Probed by Electrical and Optical Signals. Biophysical Journal, 2018, 114, 192a.	0.2	0
18	Optimal voltage for nanoparticle detection with thin nanopores. Analyst, The, 2018, 143, 4638-4645.	1.7	11

#	ARTICLE	IF	CITATIONS
19	Experimental Investigation of Dynamic Deprotonation/Protonation of Highly Charged Particles. Journal of Physical Chemistry C, 2017, 121, 6255-6263.	1.5	11
20	Salt Rejection using Conically Shaped Pores with Patterned Surface Charges. Biophysical Journal, 2017, 112, 25a.	0.2	0
21	The Investigation of Dynamic Changes of the Particle Surface Charge with Resistive-Pulse Technique. Biophysical Journal, 2017, 112, 331a.	0.2	0
22	A hybrid resistive pulse-optical detection platform for microfluidic experiments. Scientific Reports, 2017, 7, 10173.	1.6	13
23	Probing charges on solidâ€“liquid interfaces with the resistive-pulse technique. Nanoscale, 2017, 9, 13527-13537.	2.8	13
24	Viscosity and Conductivity Tunable Diode-like Behavior for Meso- and Micropores. Journal of Physical Chemistry Letters, 2017, 8, 3846-3852.	2.1	34
25	Anomalous Transit Time and Pulse Amplitude of Highly Charged Particles in Resistive Pulsing. Biophysical Journal, 2016, 110, 506a.	0.2	0
26	Direction Dependence of Resistive-Pulse Amplitude in Conically Shaped Mesopores. Analytical Chemistry, 2016, 88, 4917-4925.	3.2	42
27	Ionic Behavior in Highly Concentrated Aqueous Solutions Nanoconfined between Discretely Charged Silicon Surfaces. Langmuir, 2016, 32, 4806-4814.	1.6	26
28	Time Irreversibility of Particles Passage through a Corrugated Micropore. Biophysical Journal, 2016, 110, 655a.	0.2	0
29	Highly Charged Particles Cause a Larger Current Blockage in Micropores Compared to Neutral Particles. ACS Nano, 2016, 10, 8413-8422.	7.3	57
30	Investigation of charge inversion in silicon nanochannels with molecular dynamics simulation. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2016, 230, 51-54.	0.5	3
31	A New Procedure for Measuring Particle Length using the Resistive Pulse Technique with Irregular Single Micropores. Biophysical Journal, 2016, 110, 506a-507a.	0.2	1
32	Role of Particle Focusing in Resistive-Pulse Technique: Direction-Dependent Velocity in Micropores. ACS Nano, 2016, 10, 3509-3517.	7.3	21
33	Detection of short single-strand DNA homopolymers with ultrathin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>nanopores. Physical Review E, 2015, 92, 022719.	0.8	16
34	Ion and water transport in charge-modified graphene nanopores. Chinese Physics B, 2015, 24, 108201.	0.7	11
35	Pores with Longitudinal Irregularities Distinguish Objects by Shape. ACS Nano, 2015, 9, 4390-4397.	7.3	55
36	Anomalous Mobility of Highly Charged Particles in Pores. Analytical Chemistry, 2015, 87, 8517-8523.	3.2	33

#	Article	IF	Citations
37	Capacitance Performance of Sub-2 nm Graphene Nanochannels in Aqueous Electrolyte. Journal of Physical Chemistry C, 2015, 119, 23813-23819.	1.5	25
38	Counterions and water molecules in charged silicon nanochannels: the influence of surface charge discreteness. Molecular Simulation, 2015, 41, 1187-1192.	0.9	6
39	Experimental Observation of the Ionâ€“Ion Correlation Effects on Charge Inversion and Strong Adhesion between Mica Surfaces in Aqueous Electrolyte Solutions. Langmuir, 2014, 30, 10845-10854.	1.6	57
40	Ion specificity in NaCl solution confined in silicon nanochannels. Science China Technological Sciences, 2014, 57, 230-238.	2.0	10
41	Effect of nanopore size on poly(dT)30 translocation through silicon nitride membrane. Science China Technological Sciences, 2013, 56, 2398-2402.	2.0	21
42	Charge Inversion of Mica Surface in Multivalent Electrolytes. , 2013, , .		0
43	Ionic current investigation in silicon nanochannels with molecular dynamics simulations. , 2013, , .		0
44	Water and ion distributions in a silicon nanochannel: a molecular dynamics study. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2012, 226, 31-34.	0.1	2
45	The Effects of Ions and Surface Charge Density on Water Distribution in Silicon Nanochannel. , 2012, , .		0