

Yinghua Qiu

List of Publications by Year in descending order

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45
papers

801
citations

430754

18
h-index

501076

28
g-index

47
all docs

47
docs citations

47
times ranked

896
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Observation of the Ion-Ion Correlation Effects on Charge Inversion and Strong Adhesion between Mica Surfaces in Aqueous Electrolyte Solutions. <i>Langmuir</i> , 2014, 30, 10845-10854.	1.6	57
2	Highly Charged Particles Cause a Larger Current Blockage in Micropores Compared to Neutral Particles. <i>ACS Nano</i> , 2016, 10, 8413-8422.	7.3	57
3	Pores with Longitudinal Irregularities Distinguish Objects by Shape. <i>ACS Nano</i> , 2015, 9, 4390-4397.	7.3	55
4	Modulation of Ionic Current Rectification in Ultrashort Conical Nanopores. <i>Analytical Chemistry</i> , 2020, 92, 16188-16196.	3.2	48
5	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
6	Direction Dependence of Resistive-Pulse Amplitude in Conically Shaped Mesopores. <i>Analytical Chemistry</i> , 2016, 88, 4917-4925.	3.2	42
7	Visualization of Hydrogen Evolution at Individual Platinum Nanoparticles at a Buried Interface. <i>Journal of the American Chemical Society</i> , 2020, 142, 8890-8896.	6.6	40
8	Viscosity and Conductivity Tunable Diode-like Behavior for Meso- and Micropores. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3846-3852.	2.1	34
9	Anomalous Mobility of Highly Charged Particles in Pores. <i>Analytical Chemistry</i> , 2015, 87, 8517-8523.	3.2	33
10	Abnormal Ionic-Current Rectification Caused by Reversed Electroosmotic Flow under Viscosity Gradients across Thin Nanopores. <i>Analytical Chemistry</i> , 2019, 91, 996-1004.	3.2	32
11	Optimal design of graphene nanopores for seawater desalination. <i>Journal of Chemical Physics</i> , 2018, 148, 014703.	1.2	30
12	Prewetting Polypropylene-Wood Pulp Fiber Composite Nonwoven Fabric for Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46923-46932.	4.0	30
13	Ionic Behavior in Highly Concentrated Aqueous Solutions Nanoconfined between Discretely Charged Silicon Surfaces. <i>Langmuir</i> , 2016, 32, 4806-4814.	1.6	26
14	Capacitance Performance of Sub-2 nm Graphene Nanochannels in Aqueous Electrolyte. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23813-23819.	1.5	25
15	Effect of nanopore size on poly(dT)30 translocation through silicon nitride membrane. <i>Science China Technological Sciences</i> , 2013, 56, 2398-2402.	2.0	21
16	Role of Particle Focusing in Resistive-Pulse Technique: Direction-Dependent Velocity in Micropores. <i>ACS Nano</i> , 2016, 10, 3509-3517.	7.3	21
17	High-performance nanofluidic osmotic power generation enabled by exterior surface charges under the natural salt gradient. <i>Journal of Power Sources</i> , 2021, 492, 229637.	4.0	21
18	Significantly Enhanced Performance of Nanofluidic Osmotic Power Generation by Slipping Surfaces of Nanopores. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14195-14203.	1.5	18

#	ARTICLE	IF	CITATIONS
19	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
20	Effective Charged Exterior Surfaces for Enhanced Ionic Diffusion through Nanopores under Salt Gradients. Journal of Physical Chemistry Letters, 2022, 13, 5669-5676. Detection of short single-strand DNA homopolymers with ultrathin silicon nanochannels	2.1	17
21	$S_i^3N_4$ nanopores. Physical Review E, 2015, 92, 022719.	0.8	16
22	A hybrid resistive pulse-optical detection platform for microfluidic experiments. Scientific Reports, 2017, 7, 10173.	1.6	13
23	Probing charges on solid-liquid interfaces with the resistive-pulse technique. Nanoscale, 2017, 9, 13527-13537.	2.8	13
24	Ion and water transport in charge-modified graphene nanopores. Chinese Physics B, 2015, 24, 108201.	0.7	11
25	Experimental Investigation of Dynamic Deprotonation/Protonation of Highly Charged Particles. Journal of Physical Chemistry C, 2017, 121, 6255-6263.	1.5	11
26	Optimal voltage for nanoparticle detection with thin nanopores. Analyst, The, 2018, 143, 4638-4645.	1.7	11
27	Electrochemical Generation of Individual Nanobubbles Comprising H_2 , D_2 , and HD. Langmuir, 2020, 36, 6073-6078.	1.6	11
28	Electrochemical Reduction of $[Ni(Me bpy)_3]^{2+}$: Elucidation of the Redox Mechanism by Cyclic Voltammetry and Steady-State Voltammetry in Low Ionic Strength Solutions. ChemElectroChem, 2020, 7, 1473-1479.	1.7	11
29	Ion specificity in NaCl solution confined in silicon nanochannels. Science China Technological Sciences, 2014, 57, 230-238.	2.0	10
30	Field-enhanced water transport in sub-nanometer graphene nanopores. Desalination, 2022, 528, 115610.	4.0	10
31	Counterions and water molecules in charged silicon nanochannels: the influence of surface charge discreteness. Molecular Simulation, 2015, 41, 1187-1192.	0.9	6
32	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
33	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
34	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
35	Nanopore Fabrication in Ultrathin HFO ₂ Membranes for Nanopore-Based DNA Sequencing. Biophysical Journal, 2018, 114, 179a.	0.2	1
36	The Effects of Ions and Surface Charge Density on Water Distribution in Silicon Nanochannel. , 2012, , .		0

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37	Charge Inversion of Mica Surface in Multivalent Electrolytes. , 2013, , .		0
38	Ionic current investigation in silicon nanochannels with molecular dynamics simulations. , 2013, , .		0
39	Anomalous Transit Time and Pulse Amplitude of Highly Charged Particles in Resistive Pulsing. Biophysical Journal, 2016, 110, 506a.	0.2	0
40	Time Irreversibility of Particles Passage through a Corrugated Micropore. Biophysical Journal, 2016, 110, 655a.	0.2	0
41	Salt Rejection using Conically Shaped Pores with Patterned Surface Charges. Biophysical Journal, 2017, 112, 25a.	0.2	0
42	The Investigation of Dynamic Changes of the Particle Surface Charge with Resistive-Pulse Technique. Biophysical Journal, 2017, 112, 331a.	0.2	0
43	Viscosity and Conductivity Tunable Diode-Like Behavior for MESO- and Micropores. Biophysical Journal, 2018, 114, 304a-305a.	0.2	0
44	Deformability of Individual Cells Probed by Electrical and Optical Signals. Biophysical Journal, 2018, 114, 192a.	0.2	0
45	Photothermally-Assisted Lipid Bilayer Coating on a Sin Nanopore for High-Throughput Protein Channel Formation. Biophysical Journal, 2019, 116, 294a.	0.2	0