

Yin Zhang

List of Publications by Year in descending order

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44
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751
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Transport in Quasi-1D van der Waals Crystal Ta ₂ Pd ₃ Se ₈ Nanowires: Size and Length Dependence. ACS Nano, 2018, 12, 2634-2642.	14.6	61
2	Thermal conductivity of individual silicon nanoribbons. Nanoscale, 2016, 8, 17895-17901.	5.6	54
3	Thermoelectric characterization of individual bismuth selenide topological insulator nanoribbons. Nanoscale, 2015, 7, 6683-6690.	5.6	43
4	Controllable and reversible DNA translocation through a single-layer molybdenum disulfide nanopore. Nanoscale, 2018, 10, 19450-19458.	5.6	37
5	Discrimination of Protein Amino Acid or Its Protonated State at Single-Residue Resolution by Graphene Nanopores. Small, 2019, 15, e1900036.	10.0	33
6	Ionic current modulation from DNA translocation through nanopores under high ionic strength and concentration gradients. Nanoscale, 2017, 9, 930-939.	5.6	32
7	A Nanoparticle-DNA Assembled Nanorobot Powered by Charge-Tunable Quad-Nanopore System. ACS Nano, 2020, 14, 15349-15360.	14.6	30
8	Nanopore detection of DNA molecules in magnesium chloride solutions. Nanoscale Research Letters, 2013, 8, 245.	5.7	27
9	Salt Gradient Improving Signal-to-Noise Ratio in Solid-State Nanopore. ACS Sensors, 2017, 2, 506-512.	7.8	27
10	Thermal transport in electrospun vinyl polymer nanofibers: effects of molecular weight and side groups. Soft Matter, 2018, 14, 9534-9541.	2.7	27
11	Electroosmotic Facilitated Protein Capture and Transport through Solid-State Nanopores with Diameter Larger than Length. Small Methods, 2020, 4, 1900893.	8.6	26
12	A rapid and simple method to draw polyethylene nanofibers with enhanced thermal conductivity. Applied Physics Letters, 2016, 109, .	3.3	24
13	Detection of short single-strand DNA homopolymers with ultrathin Si ₃ N ₄ nanopores. Physical Review E, 2015, 92, 022719.	2.1	16
14	Detergent-Assisted Braking of Peptide Translocation through a Single-Layer Molybdenum Disulfide Nanopore. Small Methods, 2020, 4, 1900822.	8.6	16
15	DNA sequencing technology based on nanopore sensors by theoretical calculations and simulations. Science Bulletin, 2014, 59, 4929-4941.	1.7	12
16	Investigation on the interaction length and access resistance of a nanopore with an atomic force microscopy. Science China Technological Sciences, 2017, 60, 552-560.	4.0	12
17	Velocity control of protein translocation through a nanopore by tuning the fraction of benzenoid residues. Nanoscale, 2021, 13, 15352-15361.	5.6	12
18	Thermal conductivity of zinc blende and wurtzite CdSe nanostructures. Nanoscale, 2015, 7, 16071-16078.	5.6	11

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19	Navigated Delivery of Peptide to the Nanopore Using In-Plane Heterostructures of MoS ₂ and SnS ₂ for Protein Sequencing. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3863-3872.	4.6	11
20	Encoding Manipulation of DNA Nanoparticle Assembled Nanorobot Using Independently Charged Array Nanopores. <i>Small Methods</i> , 2022, 6, .	8.6	11
21	Temperature effect on translocation speed and capture rate of nanopore-based DNA detection. <i>Science China Technological Sciences</i> , 2015, 58, 519-525.	4.0	10
22	Discrimination of single-stranded DNA homopolymers by sieving out G-quadruplex using tiny solid-state nanopores. <i>Electrophoresis</i> , 2019, 40, 2117-2124.	2.4	10
23	Detection and Separation of Single-Stranded DNA Fragments Using Solid-State Nanopores. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6469-6477.	4.6	10
24	A microfluidic diode for sorting and immobilization of <i>Caenorhabditis elegans</i> . <i>Biomedical Microdevices</i> , 2017, 19, 38.	2.8	8
25	Retarding and manipulating of DNA molecules translocation through nanopores. <i>Science Bulletin</i> , 2014, 59, 4908-4917.	1.7	7
26	Integrated solid-state nanopore devices for third generation DNA sequencing. <i>Science China Technological Sciences</i> , 2014, 57, 1925-1935.	4.0	7
27	Computational modeling of ionic currents through difform graphene nanopores with consistent cross-sectional areas. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26166-26174.	2.8	5
28	Mechanisms of pressure-induced water infiltration process through graphene nanopores. <i>Molecular Simulation</i> , 2019, 45, 518-524.	2.0	3
29	Concentration effects on capture rate and translocation configuration of nanopore-based DNA detection. <i>Electrophoresis</i> , 2020, 41, 1523-1528.	2.4	2
30	Fast Fabrication of Solid-State Nanopores for DNA Molecule Analysis. <i>Nanomaterials</i> , 2021, 11, 2450.	4.1	2
31	A study of structure and properties of molecularly thin methanol film using the modified surface forces apparatus. <i>Microscopy Research and Technique</i> , 2014, 77, 851-856.	2.2	1
32	Effects of Microchannel Cross-section Shape on Particle Focusing. , 2019, , .		1
33	Sequence-Specific Detection of DNA Strands Using a Solid-State Nanopore Assisted by Microbeads. <i>Micromachines</i> , 2020, 11, 1097.	2.9	1
34	The Molecular Dynamics Study for Detection of ssDNA by Monolayer Graphene Nanopore. , 2013, , .		0
35	Fabrication of Al ₂ O ₃ Nanopore Sensors for DNA Detection. , 2013, , .		0
36	Nanopore Positive Pulse Detection of DNA with Salt Gradients. <i>Key Engineering Materials</i> , 0, 656-657, 567-572.	0.4	0

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37	Concentration Gradient Effect on the Capturing Ratio of Nanopore for DNA. Key Engineering Materials, 0, 656-657, 554-560.	0.4	0
38	Molecule Concentration Dependence of DNA Translocation Configuration through Solid-state Nanopores. , 2019, , .		0
39	Effect of Hofmeister Anions on Interfacial Properties of Mica Surface in Concentrated Aqueous Solution. Coatings, 2020, 10, 872.	2.6	0
40	Inside Back Cover: Detergent-Assisted Braking of Peptide Translocation through a Single-Layer Molybdenum Disulfide Nanopore (Small Methods 11/2020). Small Methods, 2020, 4, 2070043.	8.6	0
41	Fabrication of Small-Scale Solid-State Nanopores by Dielectric Breakdown. , 2020, , .		0
42	Mechanical Properties of Magnetic-Field-Assisted Electrospun Poly(vinylidene fluoride) (PVDF) Nanofibers. , 2020, , .		0
43	Screening of Short Single- and Double-stranded DNA Molecules Using Silicon Nitride Nanopores. , 2022, , .		0