Yunfei Chen

List of Publications by Year in descending order

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240 papers	6,715 citations	71061 41 h-index	85498 71 g-index
241 all docs	241 docs citations	241 times ranked	7440 citing authors

#	Article	IF	Citations
1	Anisotropic mechanical properties of graphene sheets from molecular dynamics. Physica B: Condensed Matter, 2010, 405, 1301-1306.	1.3	248
2	Adaptive hydrophobic and hydrophilic interactions of mussel foot proteins with organic thin films. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15680-15685.	3.3	242
3	Monte Carlo Simulation of Silicon Nanowire Thermal Conductivity. Journal of Heat Transfer, 2005, 127, 1129-1137.	1.2	200
4	Enhancing Flow Boiling Heat Transfer in Microchannels for Thermal Management with Monolithically-Integrated Silicon Nanowires. Nano Letters, 2012, 12, 3385-3390.	4.5	181
5	Hydrophobic copper nanowires for enhancing condensation heat transfer. Nano Energy, 2017, 33, 177-183.	8.2	181
6	Minimum superlattice thermal conductivity from molecular dynamics. Physical Review B, 2005, 72, .	1.1	167
7	Heat transfer and pressure drop of nanofluids containing carbon nanotubes in laminar flows. Experimental Thermal and Fluid Science, 2013, 44, 716-721.	1.5	166
8	In-plane lattice thermal conductivities of multilayer graphene films. Carbon, 2011, 49, 2653-2658.	5.4	156
9	Atomistic simulations of mechanical properties of graphene nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3359-3362.	0.9	144
10	Design and Manufacture of 3D-Printed Batteries. Joule, 2021, 5, 89-114.	11.7	137
11	Contact thermal resistance between individual multiwall carbon nanotubes. Applied Physics Letters, 2010, 96, .	1.5	134
12	Enhanced and switchable nanoscale thermal conduction due to van der Waals interfaces. Nature Nanotechnology, 2012, 7, 91-95.	15.6	120
13	Interfacial thermal resistance in multilayer graphene structures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1195-1199.	0.9	106
14	GPU accelerated molecular dynamics simulation of thermal conductivities. Journal of Computational Physics, 2007, 221, 799-804.	1.9	104
15	Thermal conductivity of electrospun polyethylene nanofibers. Nanoscale, 2015, 7, 16899-16908.	2.8	103
16	Defect-Engineered Heat Transport in Graphene: A Route to High Efficient Thermal Rectification. Scientific Reports, 2015, 5, 11962.	1.6	96
17	Molecular dynamics study of the lattice thermal conductivity of Kr/Ar superlattice nanowires. Physica B: Condensed Matter, 2004, 349, 270-280.	1.3	95
18	High Curie temperature and intrinsic ferromagnetic half-metallicity in two-dimensional Cr₃X₄ (X = S, Se, Te) nanosheets. Nanoscale Horizons, 2019, 4, 859-866.	4.1	84

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19	MoS₂/MXene Aerogel with Conformal Heterogeneous Interfaces Tailored by Atomic Layer Deposition for Tunable Microwave Absorption. Advanced Science, 2022, 9, e2101988.	5.6	76
20	Frictional Adhesion of Patterned Surfaces and Implications for Gecko and Biomimetic Systems. Langmuir, 2009, 25, 7486-7495.	1.6	75
21	Measurement of the Intrinsic Thermal Conductivity of a Multiwalled Carbon Nanotube and Its Contact Thermal Resistance with the Substrate. Small, 2011, 7, 2334-2340.	5.2	75
22	Charge Inversion and Calcium Gating in Mixtures of Ions in Nanopores. Journal of the American Chemical Society, 2020, 142, 2925-2934.	6.6	73
23	Role of Tilted Adhesion Fibrils (Setae) in the Adhesion and Locomotion of Gecko-like Systems. Journal of Physical Chemistry B, 2009, 113, 3615-3621.	1.2	70
24	Electroosmotic Flow in Nanotubes with High Surface Charge Densities. Nano Letters, 2008, 8, 42-48.	4.5	67
25	Phonon mean free path of graphite along thec-axis. Applied Physics Letters, 2014, 104, 081903.	1.5	67
26	Molecular dynamics simulation of thermal conductivity of single-wall carbon nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 350, 150-153.	0.9	65
27	Mode dependent lattice thermal conductivity of single layer graphene. Journal of Applied Physics, 2014, 116, .	1.1	61
28	Thermal Transport in Quasi-1D van der Waals Crystal Ta₂Pd₃Se₈ Nanowires: Size and Length Dependence. ACS Nano, 2018, 12, 2634-2642.	7.3	61
29	Phonon Transport through Point Contacts between Graphitic Nanomaterials. Physical Review Letters, 2014, 112, .	2.9	60
30	Experimental evidence of very long intrinsic phonon mean free path along the c-axis of graphite. Applied Physics Letters, 2015, 106, .	1.5	58
31	Water-ion permselectivity of narrow-diameter carbon nanotubes. Science Advances, 2020, 6, .	4.7	58
32	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
33	Thermal conductivity of individual silicon nanoribbons. Nanoscale, 2016, 8, 17895-17901.	2.8	54
34	Identification of Spherical and Nonspherical Proteins by a Solid-State Nanopore. Analytical Chemistry, 2018, 90, 13826-13831.	3.2	52
35	Experimental measurements on the thermal conductivity of strained monolayer graphene. Carbon, 2020, 157, 185-190.	5.4	51
36	Boronate Complex Formation with Dopa Containing Mussel Adhesive Protein Retards pH-Induced Oxidation and Enables Adhesion to Mica. PLoS ONE, 2014, 9, e108869.	1.1	51

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37	Negative correlation between in-plane bonding strength and cross-plane thermal conductivity in a model layered material. Applied Physics Letters, 2013, 102, .	1.5	50
38	Fabrication of sub-nanometer pores on graphene membrane for ion selective transport. Nanoscale, 2018, 10, 5350-5357.	2.8	50
39	Dual-phase MoC-Mo2C nanosheets prepared by molten salt electrochemical conversion of CO2 as excellent electrocatalysts for the hydrogen evolution reaction. Nano Energy, 2021, 90, 106533.	8.2	48
40	Cyclosporine-Containing Collagen Shields Suppress Corneal Allograft Rejection. American Journal of Ophthalmology, 1990, 109, 132-137.	1.7	46
41	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
42	Bi₂OS₂: a direct-gap two-dimensional semiconductor with high carrier mobility and surface electron states. Materials Horizons, 2018, 5, 1058-1064.	6.4	45
43	Observation of superdiffusive phonon transport in aligned atomic chains. Nature Nanotechnology, 2021, 16, 764-768.	15.6	43
44	Direction Dependence of Resistive-Pulse Amplitude in Conically Shaped Mesopores. Analytical Chemistry, 2016, 88, 4917-4925.	3.2	42
45	Electric-Field-Controlled Thermal Switch in Ferroelectric Materials Using First-Principles Calculations and Domain-Wall Engineering. Physical Review Applied, 2019, 11, .	1.5	42
46	Deubiquitinase USP35 restrains STING-mediated interferon signaling in ovarian cancer. Cell Death and Differentiation, 2021, 28, 139-155.	5.0	42
47	Thermal conductivities of single-walled carbon nanotubes calculated from the complete phonon dispersion relations. Physical Review B, 2007, 76, .	1.1	40
48	Layer-controlled precise fabrication of ultrathin MoS₂ films by atomic layer deposition. Nanotechnology, 2017, 28, 195605.	1.3	39
49	Phonon transport properties of bulk and monolayer GaN from first-principles calculations. Computational Materials Science, 2017, 138, 419-425.	1.4	39
50	Molecular dynamics study of DNA translocation through graphene nanopores. Physical Review E, 2013, 87, 062707.	0.8	38
51	Phonon transport properties in pillared silicon film. Journal of Applied Physics, 2015, 118, .	1.1	38
52	Controllable and reversible DNA translocation through a single-layer molybdenum disulfide nanopore. Nanoscale, 2018, 10, 19450-19458.	2.8	37
53	Distinct Signatures of Electronâ€“Phonon Coupling Observed in the Lattice Thermal Conductivity of NbSe₃ Nanowires. Nano Letters, 2019, 19, 415-421.	4.5	37
54	Heat conduction across metal and nonmetal interface containing imbedded graphene layers. Carbon, 2013, 64, 61-66.	5.4	36

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55	Sulfurâ€Mastery: Precise Synthesis of 2D Transition Metal Dichalcogenides. Advanced Functional Materials, 2019, 29, 1809261.	7.8	36
56	Distribution of groundwater arsenic in Xinjiang, P.R. China. Applied Geochemistry, 2017, 77, 116-125.	1.4	35
57	Fluid release pressure for nanochannels: the Youngâ€“Laplace equation using the effective contact angle. Nanoscale, 2019, 11, 8408-8415.	2.8	35
58	Strong Differential Monovalent Anion Selectivity in Narrow Diameter Carbon Nanotube Porins. ACS Nano, 2020, 14, 6269-6275.	7.3	35
59	Discrimination of Protein Amino Acid or Its Protonated State at Singleâ€Residue Resolution by Graphene Nanopores. Small, 2019, 15, e1900036.	5.2	33
60	Structure and properties of water film adsorbed on mica surfaces. Journal of Chemical Physics, 2015, 143, 104705.	1.2	32
61	Ionic current modulation from DNA translocation through nanopores under high ionic strength and concentration gradients. Nanoscale, 2017, 9, 930-939.	2.8	32
62	High ZT 2D Thermoelectrics by Design: Strong Interlayer Vibration and Complete Bandâ€Extrema Alignment. Advanced Functional Materials, 2020, 30, 2001200.	7.8	32
63	Green and sustainable molten salt electrochemistry for the conversion of secondary carbon pollutants to advanced carbon materials. Journal of Materials Chemistry A, 2021, 9, 14119-14146.	5.2	32
64	Study of DNA adsorption on mica surfaces using a surface force apparatus. Scientific Reports, 2015, 5, 8442.	1.6	31
65	Thermal transport properties of all-sp2 three-dimensional graphene: Anisotropy, size and pressure effects. Carbon, 2017, 113, 212-218.	5.4	31
66	Nanotubes Complexed with DNA and Proteins for Resistive-Pulse Sensing. ACS Nano, 2013, 7, 8857-8869.	7.3	30
67	Optimal design of graphene nanopores for seawater desalination. Journal of Chemical Physics, 2018, 148, 014703.	1.2	30
68	A Nanoparticle-DNA Assembled Nanorobot Powered by Charge-Tunable Quad-Nanopore System. ACS Nano, 2020, 14, 15349-15360.	7.3	30
69	Thermal expansion and impurity effects on lattice thermal conductivity of solid argon. Journal of Chemical Physics, 2004, 120, 3841-3846.	1.2	29
70	Wave packet simulations of phonon boundary scattering at graphene edges. Journal of Applied Physics, 2012, 112, 024328.	1.1	29
71	Effect of Electrical Contact Resistance on Measurement of Thermal Conductivity and Wiedemann-Franz Law for Individual Metallic Nanowires. Scientific Reports, 2018, 8, 4862.	1.6	29
72	Preparation and characterization of molybdenum disulfide films obtained by one-step atomic layer deposition method. Thin Solid Films, 2017, 624, 101-105.	0.8	28

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73	Nanopore detection of DNA molecules in magnesium chloride solutions. Nanoscale Research Letters, 2013, 8, 245.	3.1	27
74	Salt Gradient Improving Signal-to-Noise Ratio in Solid-State Nanopore. ACS Sensors, 2017, 2, 506-512.	4.0	27
75	Thermal transport in electrospun vinyl polymer nanofibers: effects of molecular weight and side groups. Soft Matter, 2018, 14, 9534-9541.	1.2	27
76	Effect of thermal coarsening on the thermal conductivity of nanoporous gold. Journal of Materials Science, 2012, 47, 5013-5018.	1.7	26
77	Ionic Behavior in Highly Concentrated Aqueous Solutions Nanoconfined between Discretely Charged Silicon Surfaces. Langmuir, 2016, 32, 4806-4814.	1.6	26
78	Electrochemical graphitization conversion of CO2 through soluble NaVO3 homogeneous catalyst in carbonate molten salt. Electrochimica Acta, 2020, 331, 135461.	2.6	26
79	Electroosmotic Facilitated Protein Capture and Transport through Solidâ€State Nanopores with Diameter Larger than Length. Small Methods, 2020, 4, 1900893.	4.6	26
80	Capacitance Performance of Sub-2 nm Graphene Nanochannels in Aqueous Electrolyte. Journal of Physical Chemistry C, 2015, 119, 23813-23819.	1.5	25
81	Intermittent Pringle maneuver versus continuous hemihepatic vascular inflow occlusion using extra-glissonian approach in laparoscopic liver resection. Surgical Endoscopy and Other Interventional Techniques, 2016, 30, 961-970.	1.3	25
82	Direct ink writing of programmable functional siliconeâ€based composites for 4D printing applications. , 2022, 1, 507-516.		25
83	The effect of surface roughness on lattice thermal conductivity of silicon nanowires. Physica B: Condensed Matter, 2011, 406, 2515-2520.	1.3	24
84	Ubiquitination of cGAS by TRAF6 regulates anti-DNA viral innate immune responses. Biochemical and Biophysical Research Communications, 2019, 514, 659-664.	1.0	24
85	Phonon energy dissipation in friction between graphene/graphene interface. Journal of Applied Physics, 2020, 127, .	1.1	24
86	A general strategy for designing two-dimensional high-efficiency layered thermoelectric materials. Energy and Environmental Science, 2021, 14, 4059-4066.	15.6	24
87	Glass capillary nanopore for single molecule detection. Science China Technological Sciences, 2015, 58, 803-812.	2.0	23
88	Defect Facilitated Phonon Transport through Kinks in Boron Carbide Nanowires. Nano Letters, 2017, 17, 3550-3555.	4.5	23
89	Mean free path dependent phonon contributions to interfacial thermal conductance. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1899-1904.	0.9	23
90	Large Thermal Conductivity Switch Ratio in Barium Titanate Under Electric Field through Firstâ€Principles Calculation. Advanced Theory and Simulations, 2018, 1, 1800098.	1.3	23

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91	Bidirectional Tuning of Thermal Conductivity in Ferroelectric Materials Using E-Controlled Hysteresis Characteristic Property. Journal of Physical Chemistry C, 2020, 124, 26144-26152.	1.5	23
92	Molecular dynamics simulation of the test of single-walled carbon nanotubes under tensile loading. Science in China Series D: Earth Sciences, 2007, 50, 7-17.	0.9	22
93	Geometric tuning of thermal conductivity in three-dimensional anisotropic phononic crystals. Nanoscale, 2016, 8, 16612-16620.	2.8	22
94	Tunable Anisotropic Thermal Conductivity and Elastic Properties in Intercalated Graphite via Lithium Ions. Journal of Physical Chemistry C, 2018, 122, 1447-1455.	1.5	22
95	Effect of nanopore size on poly(dT)30 translocation through silicon nitride membrane. Science China Technological Sciences, 2013, 56, 2398-2402.	2.0	21
96	Temperature dependence of frictional force in carbon nanotube oscillators. Nanotechnology, 2009, 20, 035704.	1.3	20
97	Identification of Single Nucleotides by a Tiny Charged Solid-State Nanopore. Journal of Physical Chemistry B, 2018, 122, 7929-7935.	1.2	20
98	Tuning the interfacial thermal conductance via the anisotropic elastic properties of graphite. Carbon, 2019, 144, 109-115.	5.4	20
99	Phonon transport in graphene based materials. Physical Chemistry Chemical Physics, 2021, 23, 26030-26060.	1.3	20
100	Resonance in Atomic-Scale Sliding Friction. Nano Letters, 2021, 21, 4615-4621.	4.5	20
101	Water structures near charged (100) and (111) silicon surfaces. Applied Physics Letters, 2009, 94, .	1.5	18
102	A novel method of fabricating a nanopore based on a glass tube for single-molecule detection. Nanotechnology, 2011, 22, 175304.	1.3	18
103	The ignored effects of vibrational entropy and electrocaloric effect in PbTiO3 and PbZr0.5Ti0.5O3 as studied through first-principles calculation. Acta Materialia, 2020, 191, 221-229.	3.8	18
104	Optimization of Superlattice Thermoelectric Materials and Microcoolers. Journal of Microelectromechanical Systems, 2007, 16, 1113-1119.	1.7	17
105	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
106	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
107	Pressure effects on the thermal resistance of few-layer graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 248-254.	0.9	16
108	MoS2 solid-lubricating film fabricated by atomic layer deposition on Si substrate. AIP Advances, 2018, 8, .	0.6	16

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109	Nanotribological Properties of ALD-Made Ultrathin MoS₂ Influenced by Film Thickness and Scanning Velocity. Langmuir, 2019, 35, 3651-3657.	1.6	16
110	Detergentâ€Assisted Braking of Peptide Translocation through a Singleâ€Layer Molybdenum Disulfide Nanopore. Small Methods, 2020, 4, 1900822.	4.6	16
111	DNA Damage Repair Status Predicts Opposite Clinical Prognosis Immunotherapy and Non-Immunotherapy in Hepatocellular Carcinoma. Frontiers in Immunology, 2021, 12, 676922.	2.2	15
112	Surface Charge Density Inside a Silicon Nitride Nanopore. Langmuir, 2021, 37, 10521-10528.	1.6	15
113	Effects of interfacial roughness on phonon transport in bilayer silicon thin films. Physical Review B, 2015, 92, .	1.1	14
114	Selective ion-permeation through strained and charged graphene membranes. Nanotechnology, 2018, 29, 035402.	1.3	14
115	Thermal protection of a hypersonic vehicle by modulating stagnation-point heat flux. Aerospace Science and Technology, 2020, 98, 105673.	2.5	14
116	Inter- and intramolecular adhesion mechanisms of mussel foot proteins. Science China Technological Sciences, 2020, 63, 1675-1698.	2.0	14
117	Ionic current through a nanopore three nanometers in diameter. Physical Review E, 2009, 80, 021918.	0.8	13
118	The thermal conductivity of SiGe heterostructure nanowires with different cores and shells. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2668-2671.	0.9	13
119	Molecular Dynamics Studies of Homogeneous and Heterogeneous Thermal Bubble Nucleation. Journal of Heat Transfer, 2014, 136, .	1.2	13
120	Experimental and Theoretical Investigations on the Nanoscale Kinetic Friction in Ambient Environmental Conditions. Nano Letters, 2015, 15, 4704-4712.	4.5	13
121	DNA sequencing technology based on nanopore sensors by theoretical calculations and simulations. Science Bulletin, 2014, 59, 4929-4941.	1.7	12
122	High-Performance Graphene-Based Electrostatic Field Sensor. IEEE Electron Device Letters, 2017, 38, 1136-1138.	2.2	12
123	Investigation on the interaction length and access resistance of a nanopore with an atomic force microscopy. Science China Technological Sciences, 2017, 60, 552-560.	2.0	12
124	Kink effects on thermal transport in silicon nanowires. International Journal of Heat and Mass Transfer, 2019, 137, 573-578.	2.5	12
125	Heavy metal pollution and health risk assessment of agricultural land in the Southern Margin of Tarim Basin in Xinjiang, China. International Journal of Environmental Health Research, 2021, 31, 835-847.	1.3	12
126	Shape characterization and discrimination of single nanoparticles using solid-state nanopores. Analyst, The, 2020, 145, 1657-1666.	1.7	12

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127	Significant enhancement of thermal boundary conductance in graphite/Al interface by ion intercalation. International Journal of Heat and Mass Transfer, 2020, 157, 119946.	2.5	12
128	The enhancement of heat conduction across the metal/graphite interface treated with a focused ion beam. Nanoscale, 2020, 12, 14838-14846.	2.8	12
129	Exosomal miR-29b from cancer-associated fibroblasts inhibits the migration and invasion of hepatocellular carcinoma cells. Translational Cancer Research, 2020, 9, 2576-2587.	0.4	12
130	Molecular dynamics simulation of the meniscus formation between two surfaces. Applied Physics Letters, 2001, 79, 1267-1269.	1.5	11
131	Thermal conductivity measurement of InGaAs/InGaAsP superlattice thin films. Science Bulletin, 2006, 51, 2931-2936.	1.7	11
132	Thermal conductivity of zinc blende and wurtzite CdSe nanostructures. Nanoscale, 2015, 7, 16071-16078.	2.8	11
133	Thermal Bubble Nucleation in Graphene Nanochannels. Journal of Physical Chemistry C, 2019, 123, 3482-3490.	1.5	11
134	Ion Concentration Effect on Nanoscale Electrospray Modes. Small, 2020, 16, e2000397.	5.2	11
135	Experimental Study on Strengthening Carbothermic Reduction of Vanadium-Titanium-Magnetite by Adding CaF2. Minerals (Basel, Switzerland), 2020, 10, 219.	0.8	11
136	Water quality and health risk assessment of shallow groundwater in the southern margin of the Tarim Basin in Xinjiang, P. R. China. Human and Ecological Risk Assessment (HERA), 2021, 27, 483-503.	1.7	11
137	Synergic Effects of the Nanopore Size and Surface Charge on the Ion Selectivity of Graphene Membranes. Journal of Physical Chemistry C, 2021, 125, 507-514.	1.5	11
138	Navigated Delivery of Peptide to the Nanopore Using In-Plane Heterostructures of MoS₂ and SnS₂ for Protein Sequencing. Journal of Physical Chemistry Letters, 2022, 13, 3863-3872.	2.1	11
139	Encoding Manipulation of DNAâ€Nanoparticle Assembled Nanorobot Using Independently Charged Array Nanopores. Small Methods, 2022, 6, .	4.6	11
140	Monte Carlo simulation of phonon transport in variable cross-section nanowires. Science China Technological Sciences, 2010, 53, 429-434.	2.0	10
141	Ion specificity in NaCl solution confined in silicon nanochannels. Science China Technological Sciences, 2014, 57, 230-238.	2.0	10
142	The contact area dependent interfacial thermal conductance. AIP Advances, 2015, 5, .	0.6	10
143	Temperature effect on translocation speed and capture rate of nanopore-based DNA detection. Science China Technological Sciences, 2015, 58, 519-525.	2.0	10
144	Carrier dynamics in femtosecond-laser-excited bismuth telluride. Physical Review B, 2016, 93, .	1.1	10

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145	Discrimination of singleâ€stranded DNA homopolymers by sieving out Gâ€quadruplex using tiny solidâ€state nanopores. Electrophoresis, 2019, 40, 2117-2124.	1.3	10
146	An Nd3+-Sensitized Upconversion Fluorescent Sensor for Epirubicin Detection. Nanomaterials, 2019, 9, 1700.	1.9	10
147	Detection and Separation of Single-Stranded DNA Fragments Using Solid-State Nanopores. Journal of Physical Chemistry Letters, 2021, 12, 6469-6477.	2.1	10
148	Totally Laparoscopic Associating Liver Tourniquet and Portal Ligation for Staged Hepatectomy via Anterior Approach for Cirrhotic Hepatocellular Carcinoma. Journal of the American College of Surgeons, 2015, 221, e43-e48.	0.2	9
149	Evaluating the cognitive process of color affordance and attractiveness based on the ERP. International Journal on Interactive Design and Manufacturing, 2017, 11, 471-479.	1.3	9
150	The frictional energy dissipation and interfacial heat conduction in the sliding interface. AIP Advances, 2018, 8, .	0.6	9
151	New Insight on the Interface between Polythiophene and Semiconductors via Molecular Dynamics Simulations. ACS Applied Materials & Interfaces, 2019, 11, 30470-30476.	4.0	9
152	Reactions of Doubly SiMe2-Bridged Bis(cyclopentadienyl) Complexes of Molybdenum and Iron Carbonyls: Competitive Ring-to-Metal Migrations of Hydrogen and SiMe2. Organometallics, 2012, 31, 4046-4054.	1.1	8
153	Measurement of thermal boundary conductance between metal and dielectric materials using femtosecond laser transient thermoreflectance technique. Science China Technological Sciences, 2012, 55, 1044-1049.	2.0	8
154	Photoluminescence characterization of the grain boundary thermal stability in chemical vapor deposition grown WS₂. Materials Research Express, 2017, 4, 106202.	0.8	8
155	Transient and steady state heat transport in layered materials from molecular dynamics simulation. International Journal of Heat and Mass Transfer, 2018, 121, 72-78.	2.5	8
156	Glycerol-Assisted Construction of Long-Life Three-Dimensional Surface-Enhanced Raman Scattering Hot Spot Matrix. Langmuir, 2019, 35, 15795-15804.	1.6	8
157	The Phonon Thermal Conductivity of Single-Layer Graphene From Complete Phonon Dispersion Relations. Journal of Heat Transfer, 2012, 134, .	1.2	7
158	Retarding and manipulating of DNA molecules translocation through nanopores. Science Bulletin, 2014, 59, 4908-4917.	1.7	7
159	Integrated solid-state nanopore devices for third generation DNA sequencing. Science China Technological Sciences, 2014, 57, 1925-1935.	2.0	7
160	Intramolecular Câ€“H Bond Activation in Bridged Dicyclopentadienyl Dimethyl Dinuclear Complexes. Organometallics, 2014, 33, 240-248.	1.1	7
161	A microfluidic device for generation of chemical gradients. Microsystem Technologies, 2015, 21, 1797-1804.	1.2	7
162	Thermal transport across symmetric and asymmetric solidâ€“solid interfaces. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	7

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163	Analysis of reciprocating Oâ€ring seal in the pressureâ€balanced oilâ€filled wetâ€mate electrical connectors for underwater applications. Lubrication Science, 2019, 31, 335-345.	0.9	7
164	Direct detection of DNA using 3D surface enhanced Raman scattering hotspot matrix. Electrophoresis, 2019, 40, 2104-2111.	1.3	7
165	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS₂ Monolayers. Advanced Functional Materials, 2021, 31, 2103140.	7.8	7
166	Manipulating valley-polarized photoluminescence of MoS2 monolayer at off resonance wavelength with a double-resonance strategy. Applied Physics Letters, 2021, 119, 031106.	1.5	7
167	Atomic Layer Deposition-Made MoS₂â€“ReS₂ Nanotubes with Cylindrical Wall Heterojunctions for Ultrasensitive MiRNA-155 Detection. ACS Applied Materials & Interfaces, 2022, 14, 10081-10091.	4.0	7
168	Counterions and water molecules in charged silicon nanochannels: the influence of surface charge discreteness. Molecular Simulation, 2015, 41, 1187-1192.	0.9	6
169	A Comparative Study of Water Quality and Human Health Risk Assessment in Longevity Area and Adjacent Non-Longevity Area. International Journal of Environmental Research and Public Health, 2019, 16, 3737.	1.2	6
170	Experimental measurement of thermal conductivity along different crystallographic planes in graphite. Journal of Applied Physics, 2020, 128, .	1.1	6
171	Thermal boundary conductance between high thermal conductivity boron arsenide and silicon. Journal of Applied Physics, 2020, 127, 055105.	1.1	6
172	Molecular dynamics simulation of ion transport in a nanochannel. Science in China Series D: Earth Sciences, 2008, 51, 921-931.	0.9	5
173	Reactions of SnMe₂-Bridged Bis(cyclopentadienes) with Iron Pentacarbonyl: Migration of the SnMe₂ Group. Organometallics, 2012, 31, 3035-3042.	1.1	5
174	Cross-plane phonon transport properties of molybdenum disulphide. Journal Physics D: Applied Physics, 2015, 48, 465303.	1.3	5
175	A convenient method of manufacturing liquid-gated MoS₂field effect transistors. Materials Research Express, 2017, 4, 105028.	0.8	5
176	Electrical and thermal conductivities of polycrystalline platinum nanowires. Nanotechnology, 2019, 30, 455706.	1.3	5
177	Computational modeling of ionic currents through difform graphene nanopores with consistent cross-sectional areas. Physical Chemistry Chemical Physics, 2019, 21, 26166-26174.	1.3	5
178	Reduction of electrical conductivity in Ag nanowires induced by low-energy electron beam irradiation. Journal of Physics and Chemistry of Solids, 2019, 124, 89-93.	1.9	5
179	Diminishing Cohesion of Chitosan Films in Acidic Solution by Multivalent Metal Cations. Langmuir, 2020, 36, 4964-4974.	1.6	5
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