

Yunfei Chen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

219
papers

4,711
citations

33
h-index

60
g-index

241
ext. papers

5,694
ext. citations

5.9
avg, IF

5.81
L-index

#	Paper	IF	Citations
219	Anisotropic mechanical properties of graphene sheets from molecular dynamics. <i>Physica B: Condensed Matter</i> , 2010 , 405, 1301-1306	2.8	213
218	Adaptive hydrophobic and hydrophilic interactions of mussel foot proteins with organic thin films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15680-5	11.5	189
217	Monte Carlo Simulation of Silicon Nanowire Thermal Conductivity. <i>Journal of Heat Transfer</i> , 2005 , 127, 1129-1137	1.8	176
216	Minimum superlattice thermal conductivity from molecular dynamics. <i>Physical Review B</i> , 2005 , 72,	3.3	143
215	Heat transfer and pressure drop of nanofluids containing carbon nanotubes in laminar flows. <i>Experimental Thermal and Fluid Science</i> , 2013 , 44, 716-721	3	139
214	Enhancing flow boiling heat transfer in microchannels for thermal management with monolithically-integrated silicon nanowires. <i>Nano Letters</i> , 2012 , 12, 3385-90	11.5	138
213	In-plane lattice thermal conductivities of multilayer graphene films. <i>Carbon</i> , 2011 , 49, 2653-2658	10.4	132
212	Hydrophobic copper nanowires for enhancing condensation heat transfer. <i>Nano Energy</i> , 2017 , 33, 177-183	7.1	129
211	Atomistic simulations of mechanical properties of graphene nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 3359-3362	2.3	127
210	Contact thermal resistance between individual multiwall carbon nanotubes. <i>Applied Physics Letters</i> , 2010 , 96, 023109	3.4	113
209	Enhanced and switchable nanoscale thermal conduction due to van der Waals interfaces. <i>Nature Nanotechnology</i> , 2011 , 7, 91-5	28.7	104
208	GPU accelerated molecular dynamics simulation of thermal conductivities. <i>Journal of Computational Physics</i> , 2007 , 221, 799-804	4.1	95
207	Interfacial thermal resistance in multilayer graphene structures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 1195-1199	2.3	91
206	Defect-Engineered Heat Transport in Graphene: A Route to High Efficient Thermal Rectification. <i>Scientific Reports</i> , 2015 , 5, 11962	4.9	82
205	Molecular dynamics study of the lattice thermal conductivity of Kr/Ar superlattice nanowires. <i>Physica B: Condensed Matter</i> , 2004 , 349, 270-280	2.8	82
204	Thermal conductivity of electrospun polyethylene nanofibers. <i>Nanoscale</i> , 2015 , 7, 16899-908	7.7	75
203	Measurement of the intrinsic thermal conductivity of a multiwalled carbon nanotube and its contact thermal resistance with the substrate. <i>Small</i> , 2011 , 7, 2334-40	11	67

202	Frictional adhesion of patterned surfaces and implications for gecko and biomimetic systems. <i>Langmuir</i> , 2009 , 25, 7486-95	4	67
201	Role of tilted adhesion fibrils (setae) in the adhesion and locomotion of gecko-like systems. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3615-21	3.4	61
200	Molecular dynamics simulation of thermal conductivity of single-wall carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 350, 150-153	2.3	61
199	Electroosmotic flow in nanotubes with high surface charge densities. <i>Nano Letters</i> , 2008 , 8, 42-8	11.5	60
198	Mode dependent lattice thermal conductivity of single layer graphene. <i>Journal of Applied Physics</i> , 2014 , 116, 153503	2.5	53
197	Phonon mean free path of graphite along the c-axis. <i>Applied Physics Letters</i> , 2014 , 104, 081903	3.4	53
196	Phonon Transport through Point Contacts between Graphitic Nanomaterials. <i>Physical Review Letters</i> , 2014 , 112,	7.4	52
195	Thermal Transport in Quasi-1D van der Waals Crystal TaPdSe Nanowires: Size and Length Dependence. <i>ACS Nano</i> , 2018 , 12, 2634-2642	16.7	50
194	Experimental evidence of very long intrinsic phonon mean free path along the c-axis of graphite. <i>Applied Physics Letters</i> , 2015 , 106, 031905	3.4	46
193	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, 10845-54	4	46
192	High Curie temperature and intrinsic ferromagnetic half-metallicity in two-dimensional Cr ₃ X ₄ (X = S, Se, Te) nanosheets. <i>Nanoscale Horizons</i> , 2019 , 4, 859-866	10.8	42
191	Negative correlation between in-plane bonding strength and cross-plane thermal conductivity in a model layered material. <i>Applied Physics Letters</i> , 2013 , 102, 011901	3.4	42
190	Cyclosporine-containing collagen shields suppress corneal allograft rejection. <i>American Journal of Ophthalmology</i> , 1990 , 109, 132-7	4.9	40
189	Thermal conductivity of individual silicon nanoribbons. <i>Nanoscale</i> , 2016 , 8, 17895-17901	7.7	40
188	Boronate complex formation with Dopa containing mussel adhesive protein retards ph-induced oxidation and enables adhesion to mica. <i>PLoS ONE</i> , 2014 , 9, e108869	3.7	39
187	Thermal conductivities of single-walled carbon nanotubes calculated from the complete phonon dispersion relations. <i>Physical Review B</i> , 2007 , 76,	3.3	36
186	Charge Inversion and Calcium Gating in Mixtures of Ions in Nanopores. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2925-2934	16.4	33
185	Molecular dynamics study of DNA translocation through graphene nanopores. <i>Physical Review E</i> , 2013 , 87, 062707	2.4	33

184	Identification of Spherical and Nonspherical Proteins by a Solid-State Nanopore. <i>Analytical Chemistry</i> , 2018 , 90, 13826-13831	7.8	33
183	Layer-controlled precise fabrication of ultrathin MoS films by atomic layer deposition. <i>Nanotechnology</i> , 2017 , 28, 195605	3.4	32
182	Fabrication of sub-nanometer pores on graphene membrane for ion selective transport. <i>Nanoscale</i> , 2018 , 10, 5350-5357	7.7	31
181	Direction Dependence of Resistive-Pulse Amplitude in Conically Shaped Mesopores. <i>Analytical Chemistry</i> , 2016 , 88, 4917-25	7.8	31
180	Design and Manufacture of 3D-Printed Batteries. <i>Joule</i> , 2021 , 5, 89-114	27.8	30
179	Bi2OS2: a direct-gap two-dimensional semiconductor with high carrier mobility and surface electron states. <i>Materials Horizons</i> , 2018 , 5, 1058-1064	14.4	28
178	Nanopore detection of DNA molecules in magnesium chloride solutions. <i>Nanoscale Research Letters</i> , 2013 , 8, 245	5	27
177	Heat conduction across metal and nonmetal interface containing imbedded graphene layers. <i>Carbon</i> , 2013 , 64, 61-66	10.4	27
176	Distribution of groundwater arsenic in Xinjiang, P.R. China. <i>Applied Geochemistry</i> , 2017 , 77, 116-125	3.5	26
175	Phonon transport properties in pillared silicon film. <i>Journal of Applied Physics</i> , 2015 , 118, 155103	2.5	26
174	Study of DNA adsorption on mica surfaces using a surface force apparatus. <i>Scientific Reports</i> , 2015 , 5, 8442	4.9	26
173	Wave packet simulations of phonon boundary scattering at graphene edges. <i>Journal of Applied Physics</i> , 2012 , 112, 024328	2.5	26
172	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	16.4	25
171	Nanotubes complexed with DNA and proteins for resistive-pulse sensing. <i>ACS Nano</i> , 2013 , 7, 8857-69	16.7	25
170	Phonon transport properties of bulk and monolayer GaN from first-principles calculations. <i>Computational Materials Science</i> , 2017 , 138, 419-425	3.2	25
169	Thermal transport properties of all-sp ² three-dimensional graphene: Anisotropy, size and pressure effects. <i>Carbon</i> , 2017 , 113, 212-218	10.4	25
168	Effect of thermal coarsening on the thermal conductivity of nanoporous gold. <i>Journal of Materials Science</i> , 2012 , 47, 5013-5018	4.3	25
167	Water-ion permselectivity of narrow-diameter carbon nanotubes. <i>Science Advances</i> , 2020 , 6,	14.3	25

166	Discrimination of Protein Amino Acid or Its Protonated State at Single-Residue Resolution by Graphene Nanopores. <i>Small</i> , 2019 , 15, e1900036	11	24
165	Thermal expansion and impurity effects on lattice thermal conductivity of solid argon. <i>Journal of Chemical Physics</i> , 2004 , 120, 3841-6	3.9	24
164	Controllable and reversible DNA translocation through a single-layer molybdenum disulfide nanopore. <i>Nanoscale</i> , 2018 , 10, 19450-19458	7.7	24
163	Structure and properties of water film adsorbed on mica surfaces. <i>Journal of Chemical Physics</i> , 2015 , 143, 104705	3.9	23
162	Preparation and characterization of molybdenum disulfide films obtained by one-step atomic layer deposition method. <i>Thin Solid Films</i> , 2017 , 624, 101-105	2.2	22
161	Salt Gradient Improving Signal-to-Noise Ratio in Solid-State Nanopore. <i>ACS Sensors</i> , 2017 , 2, 506-512	9.2	21
160	Sulfur-Mastery: Precise Synthesis of 2D Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1809261	15.6	21
159	High ZT 2D Thermoelectrics by Design: Strong Interlayer Vibration and Complete Band-Extrema Alignment. <i>Advanced Functional Materials</i> , 2020 , 30, 2001200	15.6	21
158	Intermittent Pringle maneuver versus continuous hemihepatic vascular inflow occlusion using extra-glissonian approach in laparoscopic liver resection. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2016 , 30, 961-70	5.2	21
157	The effect of surface roughness on lattice thermal conductivity of silicon nanowires. <i>Physica B: Condensed Matter</i> , 2011 , 406, 2515-2520	2.8	21
156	Strong Differential Monovalent Anion Selectivity in Narrow Diameter Carbon Nanotube Porins. <i>ACS Nano</i> , 2020 , 14, 6269-6275	16.7	20
155	Optimal design of graphene nanopores for seawater desalination. <i>Journal of Chemical Physics</i> , 2018 , 148, 014703	3.9	20
154	Distinct Signatures of Electron-Phonon Coupling Observed in the Lattice Thermal Conductivity of NbSe Nanowires. <i>Nano Letters</i> , 2019 , 19, 415-421	11.5	20
153	Ionic current modulation from DNA translocation through nanopores under high ionic strength and concentration gradients. <i>Nanoscale</i> , 2017 , 9, 930-939	7.7	19
152	Capacitance Performance of Sub-2 nm Graphene Nanochannels in Aqueous Electrolyte. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23813-23819	3.8	19
151	Geometric tuning of thermal conductivity in three-dimensional anisotropic phononic crystals. <i>Nanoscale</i> , 2016 , 8, 16612-20	7.7	19
150	Ionic Behavior in Highly Concentrated Aqueous Solutions Nanoconfined between Discretely Charged Silicon Surfaces. <i>Langmuir</i> , 2016 , 32, 4806-14	4	19
149	Effect of Electrical Contact Resistance on Measurement of Thermal Conductivity and Wiedemann-Franz Law for Individual Metallic Nanowires. <i>Scientific Reports</i> , 2018 , 8, 4862	4.9	18

148	Effect of nanopore size on poly(dT) ₃₀ translocation through silicon nitride membrane. <i>Science China Technological Sciences</i> , 2013 , 56, 2398-2402	3.5	18
147	Experimental measurements on the thermal conductivity of strained monolayer graphene. <i>Carbon</i> , 2020 , 157, 185-190	10.4	18
146	Electric-Field-Controlled Thermal Switch in Ferroelectric Materials Using First-Principles Calculations and Domain-Wall Engineering. <i>Physical Review Applied</i> , 2019 , 11,	4.3	17
145	Fluid release pressure for nanochannels: the Young-Laplace equation using the effective contact angle. <i>Nanoscale</i> , 2019 , 11, 8408-8415	7.7	17
144	Temperature dependence of frictional force in carbon nanotube oscillators. <i>Nanotechnology</i> , 2009 , 20, 035704	3.4	17
143	Water structures near charged (100) and (111) silicon surfaces. <i>Applied Physics Letters</i> , 2009 , 94, 201901	3.4	17
142	Thermal transport in electrospun vinyl polymer nanofibers: effects of molecular weight and side groups. <i>Soft Matter</i> , 2018 , 14, 9534-9541	3.6	17
141	Defect Facilitated Phonon Transport through Kinks in Boron Carbide Nanowires. <i>Nano Letters</i> , 2017 , 17, 3550-3555	11.5	16
140	Glass capillary nanopore for single molecule detection. <i>Science China Technological Sciences</i> , 2015 , 58, 803-812	3.5	16
139	Molecular dynamics simulation of the test of single-walled carbon nanotubes under tensile loading. <i>Science in China Series D: Earth Sciences</i> , 2007 , 50, 7-17		16
138	Tunable Anisotropic Thermal Conductivity and Elastic Properties in Intercalated Graphite via Lithium Ions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1447-1455	3.8	15
137	Optimization of Superlattice Thermoelectric Materials and Microcoolers. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 1113-1119	2.5	15
136	Electrochemical graphitization conversion of CO ₂ through soluble NaVO ₃ homogeneous catalyst in carbonate molten salt. <i>Electrochimica Acta</i> , 2020 , 331, 135461	6.7	15
135	Observation of superdiffusive phonon transport in aligned atomic chains. <i>Nature Nanotechnology</i> , 2021 , 16, 764-768	28.7	15
134	Experimental and Theoretical Investigations on the Nanoscale Kinetic Friction in Ambient Environmental Conditions. <i>Nano Letters</i> , 2015 , 15, 4704-12	11.5	13
133	Identification of Single Nucleotides by a Tiny Charged Solid-State Nanopore. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 7929-7935	3.4	13
132	Detection of short single-strand DNA homopolymers with ultrathin Si ₃ N ₄ nanopores. <i>Physical Review E</i> , 2015 , 92, 022719	2.4	13
131	A novel method of fabricating a nanopore based on a glass tube for single-molecule detection. <i>Nanotechnology</i> , 2011 , 22, 175304	3.4	13

130	Tuning the interfacial thermal conductance via the anisotropic elastic properties of graphite. <i>Carbon</i> , 2019 , 144, 109-115	10.4	13
129	Selective ion-permeation through strained and charged graphene membranes. <i>Nanotechnology</i> , 2018 , 29, 035402	3.4	13
128	Mean free path dependent phonon contributions to interfacial thermal conductance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 1899-1904	2.3	12
127	The thermal conductivity of SiGe heterostructure nanowires with different cores and shells. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 2668-2671	2.3	12
126	Electroosmotic Facilitated Protein Capture and Transport through Solid-State Nanopores with Diameter Larger than Length. <i>Small Methods</i> , 2020 , 4, 1900893	12.8	12
125	Ubiquitination of cGAS by TRAF6 regulates anti-DNA viral innate immune responses. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 514, 659-664	3.4	11
124	A Nanoparticle-DNA Assembled Nanorobot Powered by Charge-Tunable Quad-Nanopore System. <i>ACS Nano</i> , 2020 , 14, 15349-15360	16.7	11
123	DNA sequencing technology based on nanopore sensors by theoretical calculations and simulations. <i>Science Bulletin</i> , 2014 , 59, 4929-4941		11
122	Pressure effects on the thermal resistance of few-layer graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 248-254	2.3	10
121	MoS2 solid-lubricating film fabricated by atomic layer deposition on Si substrate. <i>AIP Advances</i> , 2018 , 8, 045216	1.5	10
120	High-Performance Graphene-Based Electrostatic Field Sensor. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1136-1138	4.4	10
119	Investigation on the interaction length and access resistance of a nanopore with an atomic force microscopy. <i>Science China Technological Sciences</i> , 2017 , 60, 552-560	3.5	10
118	Ionic current through a nanopore three nanometers in diameter. <i>Physical Review E</i> , 2009 , 80, 021918	2.4	10
117	Thermal conductivity measurement of InGaAs/InGaAsP superlattice thin films. <i>Science Bulletin</i> , 2006 , 51, 2931-2936		10
116	Molecular dynamics simulation of the meniscus formation between two surfaces. <i>Applied Physics Letters</i> , 2001 , 79, 1267-1269	3.4	10
115	MoS /MXene Aerogel with Conformal Heterogeneous Interfaces Tailored by Atomic Layer Deposition for Tunable Microwave Absorption.. <i>Advanced Science</i> , 2022 , e2101988	13.6	10
114	Large Thermal Conductivity Switch Ratio in Barium Titanate Under Electric Field through First-Principles Calculation. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1800098	3.5	10
113	Dual-phase MoC-Mo2C nanosheets prepared by molten salt electrochemical conversion of CO2 as excellent electrocatalysts for the hydrogen evolution reaction. <i>Nano Energy</i> , 2021 , 90, 106533	17.1	10

112	Nanotribological Properties of ALD-Made Ultrathin MoS Influenced by Film Thickness and Scanning Velocity. <i>Langmuir</i> , 2019 , 35, 3651-3657	4	9
111	Temperature effect on translocation speed and capture rate of nanopore-based DNA detection. <i>Science China Technological Sciences</i> , 2015 , 58, 519-525	3.5	9
110	The ignored effects of vibrational entropy and electrocaloric effect in PbTiO ₃ and PbZr _{0.5} Ti _{0.5} O ₃ as studied through first-principles calculation. <i>Acta Materialia</i> , 2020 , 191, 221-229	8.4	9
109	Carrier dynamics in femtosecond-laser-excited bismuth telluride. <i>Physical Review B</i> , 2016 , 93,	3.3	9
108	Molecular Dynamics Studies of Homogeneous and Heterogeneous Thermal Bubble Nucleation. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	9
107	Ion specificity in NaCl solution confined in silicon nanochannels. <i>Science China Technological Sciences</i> , 2014 , 57, 230-238	3.5	8
106	Effects of interfacial roughness on phonon transport in bilayer silicon thin films. <i>Physical Review B</i> , 2015 , 92,	3.3	8
105	The contact area dependent interfacial thermal conductance. <i>AIP Advances</i> , 2015 , 5, 127111	1.5	8
104	Monte Carlo simulation of phonon transport in variable cross-section nanowires. <i>Science China Technological Sciences</i> , 2010 , 53, 429-434	3.5	8
103	Phonon energy dissipation in friction between graphene/graphene interface. <i>Journal of Applied Physics</i> , 2020 , 127, 015105	2.5	8
102	Shape characterization and discrimination of single nanoparticles using solid-state nanopores. <i>Analyst, The</i> , 2020 , 145, 1657-1666	5	8
101	A general strategy for designing two-dimensional high-efficiency layered thermoelectric materials. <i>Energy and Environmental Science</i> , 2021 , 14, 4059-4066	35.4	8
100	Green and sustainable molten salt electrochemistry for the conversion of secondary carbon pollutants to advanced carbon materials. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14119-14146	13	8
99	Effects of Surface Trapping and Contact Ion Pairing on Ion Transport in Nanopores. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15314-15322	3.8	7
98	Discrimination of single-stranded DNA homopolymers by sieving out G-quadruplex using tiny solid-state nanopores. <i>Electrophoresis</i> , 2019 , 40, 2117-2124	3.6	7
97	A microfluidic device for generation of chemical gradients. <i>Microsystem Technologies</i> , 2015 , 21, 1797-1804	4.7	7
96	Totally Laparoscopic Associating Liver Tourniquet and Portal Ligation for Staged Hepatectomy via Anterior Approach for Cirrhotic Hepatocellular Carcinoma. <i>Journal of the American College of Surgeons</i> , 2015 , 221, e43-8	4.4	7
95	Thermal protection of a hypersonic vehicle by modulating stagnation-point heat flux. <i>Aerospace Science and Technology</i> , 2020 , 98, 105673	4.9	7

94	Retarding and manipulating of DNA molecules translocation through nanopores. <i>Science Bulletin</i> , 2014 , 59, 4908-4917		7
93	Reactions of Doubly SiMe ₂ -Bridged Bis(cyclopentadienyl) Complexes of Molybdenum and Iron Carbonyls: Competitive Ring-to-Metal Migrations of Hydrogen and SiMe ₂ . <i>Organometallics</i> , 2012 , 31, 4046-4054	3.8	7
92	The Phonon Thermal Conductivity of Single-Layer Graphene From Complete Phonon Dispersion Relations. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	7
91	Heavy metal pollution and health risk assessment of agricultural land in the Southern Margin of Tarim Basin in Xinjiang, China. <i>International Journal of Environmental Health Research</i> , 2021 , 31, 835-847	3.6	7
90	Water quality and health risk assessment of shallow groundwater in the southern margin of the Tarim Basin in Xinjiang, P. R. China. <i>Human and Ecological Risk Assessment (HERA)</i> , 2021 , 27, 483-503	4.9	7
89	Deubiquitinase USP35 restrains STING-mediated interferon signaling in ovarian cancer. <i>Cell Death and Differentiation</i> , 2021 , 28, 139-155	12.7	7
88	Kink effects on thermal transport in silicon nanowires. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 573-578	4.9	6
87	Transient and steady state heat transport in layered materials from molecular dynamics simulation. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 121, 72-78	4.9	6
86	New Insight on the Interface between Polythiophene and Semiconductors via Molecular Dynamics Simulations. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30470-30476	9.5	6
85	Intramolecular C-H Bond Activation in Bridged Dicyclopentadienyl Dimethyl Dinuclear Complexes. <i>Organometallics</i> , 2014 , 33, 240-248	3.8	6
84	Measurement of thermal boundary conductance between metal and dielectric materials using femtosecond laser transient thermoreflectance technique. <i>Science China Technological Sciences</i> , 2012 , 55, 1044-1049	3.5	6
83	Evaluating the cognitive process of color affordance and attractiveness based on the ERP. <i>International Journal on Interactive Design and Manufacturing</i> , 2017 , 11, 471-479	1.9	5
82	Photoluminescence characterization of the grain boundary thermal stability in chemical vapor deposition grown WS ₂ . <i>Materials Research Express</i> , 2017 , 4, 106202	1.7	5
81	Thermal Bubble Nucleation in Graphene Nanochannels. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3482-3490	3.49	5
80	Direct detection of DNA using 3D surface enhanced Raman scattering hotspot matrix. <i>Electrophoresis</i> , 2019 , 40, 2104-2111	3.6	5
79	Thermal conductivity of zinc blende and wurtzite CdSe nanostructures. <i>Nanoscale</i> , 2015 , 7, 16071-8	7.7	5
78	Counterions and water molecules in charged silicon nanochannels: the influence of surface charge discreteness. <i>Molecular Simulation</i> , 2015 , 41, 1187-1192	2	5
77	Detergent-Assisted Braking of Peptide Translocation through a Single-Layer Molybdenum Disulfide Nanopore. <i>Small Methods</i> , 2020 , 4, 1900822	12.8	5

76	Integrated solid-state nanopore devices for third generation DNA sequencing. <i>Science China Technological Sciences</i> , 2014 , 57, 1925-1935	3.5	5
75	Reactions of SnMe ₂ -Bridged Bis(cyclopentadienes) with Iron Pentacarbonyl: Migration of the SnMe ₂ Group. <i>Organometallics</i> , 2012 , 31, 3035-3042	3.8	5
74	Synergic Effects of the Nanopore Size and Surface Charge on the Ion Selectivity of Graphene Membranes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 507-514	3.8	5
73	Bidirectional Tuning of Thermal Conductivity in Ferroelectric Materials Using E-Controlled Hysteresis Characteristic Property. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26144-26152	3.8	5
72	DNA Damage Repair Status Predicts Opposite Clinical Prognosis Immunotherapy and Non-Immunotherapy in Hepatocellular Carcinoma. <i>Frontiers in Immunology</i> , 2021 , 12, 676922	8.4	5
71	Reduction of electrical conductivity in Ag nanowires induced by low-energy electron beam irradiation. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 124, 89-93	3.9	5
70	Phonon transport in graphene based materials. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26030-26056	5.6	5
69	Glycerol-Assisted Construction of Long-Life Three-Dimensional Surface-Enhanced Raman Scattering Hot Spot Matrix. <i>Langmuir</i> , 2019 , 35, 15795-15804	4	4
68	Study of the reduction mechanism of iron sands with addition of blast furnace bag dust. <i>Metallurgical Research and Technology</i> , 2018 , 115, 214	0.9	4
67	A Comparative Study of Water Quality and Human Health Risk Assessment in Longevity Area and Adjacent Non-Longevity Area. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	4
66	Influence of coherent optical phonon on ultrafast energy relaxation. <i>Applied Physics Letters</i> , 2015 , 107, 063107	3.4	4
65	Cross-plane phonon transport properties of molybdenum disulphide. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 465303	3	4
64	Molecular dynamics simulation of ion transport in a nanochannel. <i>Science in China Series D: Earth Sciences</i> , 2008 , 51, 921-931		4
63	Inter- and intramolecular adhesion mechanisms of mussel foot proteins. <i>Science China Technological Sciences</i> , 2020 , 63, 1675-1698	3.5	4
62	Resonance in Atomic-Scale Sliding Friction. <i>Nano Letters</i> , 2021 , 21, 4615-4621	11.5	4
61	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS ₂ Monolayers. <i>Advanced Functional Materials</i> , 2021 , 31, 2103140	15.6	4
60	An Nd-Sensitized Upconversion Fluorescent Sensor for Epirubicin Detection. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
59	The frictional energy dissipation and interfacial heat conduction in the sliding interface. <i>AIP Advances</i> , 2018 , 8, 115321	1.5	4

58	A convenient method of manufacturing liquid-gated MoS ₂ field effect transistors. <i>Materials Research Express</i> , 2017 , 4, 105028	1.7	3
57	Wafer-level site-controlled growth of silicon nanowires by Cu pattern dewetting. <i>Nano Research</i> , 2015 , 8, 2646-2653	10	3
56	Ion Concentration Effect on Nanoscale Electro spray Modes. <i>Small</i> , 2020 , 16, e2000397	11	3
55	Experimental Study on Strengthening Carbothermic Reduction of Vanadium-Titanium-Magnetite by Adding CaF ₂ . <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 219	2.4	3
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