

Yunfei Chen

List of Publications by Year in Descending Order

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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	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
218	Nanoscale friction behavior of monolayer Mo _{1-x} W _x S ₂ alloy. <i>Tribology International</i> , 2022 , 166, 107363	4.9	
217	Anisotropic phonon transport in van der Waals nanostructures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 427, 127920	2.3	
216	Developing machine learning potential for classical molecular dynamics simulation with superior phonon properties. <i>Computational Materials Science</i> , 2022 , 202, 111012	3.2	
215	Atomic Layer Deposition-Made MoS-ReS Nanotubes with Cylindrical Wall Heterojunctions for Ultrasensitive MiRNA-155 Detection.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	1
214	Navigated Delivery of Peptide to the Nanopore Using In-Plane Heterostructures of MoS and SnS for Protein Sequencing.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3863-3872	6.4	0
213	Investigation of energy accommodation coefficient at gas-solid interface of a hypersonic flying vehicle. <i>Aerospace Science and Technology</i> , 2022 , 126, 107585	4.9	0
212	Facile preparation of metallic vanadium from consumable V ₂ CO solid solution by molten salt electrolysis. <i>Separation and Purification Technology</i> , 2022 , 295, 121361	8.3	
211	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
210	Observation of superdiffusive phonon transport in aligned atomic chains. <i>Nature Nanotechnology</i> , 2021 , 16, 764-768	28.7	15
209	Non-monotonic boundary resistivity for electron transport in metal nanowires. <i>Applied Physics Letters</i> , 2021 , 118, 153105	3.4	2
208	Resonance in Atomic-Scale Sliding Friction. <i>Nano Letters</i> , 2021 , 21, 4615-4621	11.5	4
207	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS ₂ Monolayers. <i>Advanced Functional Materials</i> , 2021 , 31, 2103140	15.6	4
206	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
205	Detection and Separation of Single-Stranded DNA Fragments Using Solid-State Nanopores. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6469-6477	6.4	2
204	Analysis of Interleukin-1 Signaling Alterations of Colon Adenocarcinoma Identified Implications for Immunotherapy. <i>Frontiers in Immunology</i> , 2021 , 12, 665002	8.4	0
203	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

202	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
201	Deubiquitinase USP35 restrains STING-mediated interferon signaling in ovarian cancer. <i>Cell Death and Differentiation</i> , 2021 , 28, 139-155	12.7	7
200	Phonon transport in graphene based materials. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26030-26060	5.0	5
199	Electric control of ionic transport in sub-nm nanopores.. <i>RSC Advances</i> , 2021 , 11, 13806-13813	3.7	0
198	Design and Manufacture of 3D-Printed Batteries. <i>Joule</i> , 2021 , 5, 89-114	27.8	30
197	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
196	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
195	Concentration Polarization of High Concentration Solution in Sub-nm Nanopore. <i>E3S Web of Conferences</i> , 2021 , 245, 03001	0.5	
194	Manipulating valley-polarized photoluminescence of MoS2 monolayer at off resonance wavelength with a double-resonance strategy. <i>Applied Physics Letters</i> , 2021 , 119, 031106	3.4	2
193	Surface Charge Density Inside a Silicon Nitride Nanopore. <i>Langmuir</i> , 2021 , 37, 10521-10528	4	2
192	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS2 Monolayers (Adv. Funct. Mater. 36/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170267	15.6	
191	Controllable preparation of dual-phase VC-C through in-situ electroconversion for lithium storage. <i>Ceramics International</i> , 2021 , 48, 1024-1024	5.1	
190	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
189	Modulating thermal conductance across the metal/graphene/SiO interface with ion irradiation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 22760-22767	3.6	0
188	Inside Back Cover: Detergent-Assisted Braking of Peptide Translocation through a Single-Layer Molybdenum Disulfide Nanopore (Small Methods 11/2020). <i>Small Methods</i> , 2020 , 4, 2070043	12.8	
187	A Nanoparticle-DNA Assembled Nanorobot Powered by Charge-Tunable Quad-Nanopore System. <i>ACS Nano</i> , 2020 , 14, 15349-15360	16.7	11
186	Ion Concentration Effect on Nanoscale Electrospray Modes. <i>Small</i> , 2020 , 16, e2000397	11	3
185	Significant enhancement of thermal boundary conductance in graphite/Al interface by ion intercalation. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 157, 119946	4.9	2

184	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
183	The enhancement of heat conduction across the metal/graphite interface treated with a focused ion beam. <i>Nanoscale</i> , 2020 , 12, 14838-14846	7.7	3
182	Thermal boundary conductance between high thermal conductivity boron arsenide and silicon. <i>Journal of Applied Physics</i> , 2020 , 127, 055105	2.5	2
181	Detergent-Assisted Braking of Peptide Translocation through a Single-Layer Molybdenum Disulfide Nanopore. <i>Small Methods</i> , 2020 , 4, 1900822	12.8	5
180	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
179	Thermal protection of a hypersonic vehicle by modulating stagnation-point heat flux. <i>Aerospace Science and Technology</i> , 2020 , 98, 105673	4.9	7
178	Strong Differential Monovalent Anion Selectivity in Narrow Diameter Carbon Nanotube Porins. <i>ACS Nano</i> , 2020 , 14, 6269-6275	16.7	20
177	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
176	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
175	Effects of Commensurability on the Friction and Energy Dissipation in Graphene/Graphene Interface 2020 ,		1
174	Exosomal miR-29b from cancer-associated fibroblasts inhibits the migration and invasion of hepatocellular carcinoma cells.. <i>Translational Cancer Research</i> , 2020 , 9, 2576-2587	0.3	3
173	Inter- and intramolecular adhesion mechanisms of mussel foot proteins. <i>Science China Technological Sciences</i> , 2020 , 63, 1675-1698	3.5	4
172	Theory of aerodynamic heating from molecular collision analysis. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126098	2.3	0
171	Phonon energy dissipation in friction between graphene/graphene interface. <i>Journal of Applied Physics</i> , 2020 , 127, 015105	2.5	8
170	Shape characterization and discrimination of single nanoparticles using solid-state nanopores. <i>Analyst, The</i> , 2020 , 145, 1657-1666	5	8
169	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
168	The effects of contact atom distribution at the interface on the phonon transport. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 27690-27697	3.6	2
167	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

166	Investigation of Ergonomics in Photocuring 3D Printing Post-Processing Using Jack 2020 ,		3
165	Experimental measurement of thermal conductivity along different crystallographic planes in graphite. <i>Journal of Applied Physics</i> , 2020 , 128, 045118	2.5	1
164	Water-ion permselectivity of narrow-diameter carbon nanotubes. <i>Science Advances</i> , 2020 , 6,	14.3	25
163	Experimental measurements on the thermal conductivity of strained monolayer graphene. <i>Carbon</i> , 2020 , 157, 185-190	10.4	18
162	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
161	Diminishing Cohesion of Chitosan Films in Acidic Solution by Multivalent Metal Cations. <i>Langmuir</i> , 2020 , 36, 4964-4974	4	3
160	Fluid release pressure for micro-/nanoscale rectangular channels. <i>Journal of Applied Physics</i> , 2020 , 127, 114302	2.5	1
159	Passive microscopic fluidic diodes using asymmetric channels. <i>AIP Advances</i> , 2019 , 9, 085117	1.5	2
158	Thermal Bubble Nucleation in Graphene Nanochannels. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3482-3490	3.9	5
157	Glycerol-Assisted Construction of Long-Life Three-Dimensional Surface-Enhanced Raman Scattering Hot Spot Matrix. <i>Langmuir</i> , 2019 , 35, 15795-15804	4	4
156	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
155	Sulfur-Mastery: Precise Synthesis of 2D Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1809261	15.6	21
154	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
153	Discrimination of Protein Amino Acid or Its Protonated State at Single-Residue Resolution by Graphene Nanopores. <i>Small</i> , 2019 , 15, e1900036	11	24
152	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
151	Direct detection of DNA using 3D surface enhanced Raman scattering hotspot matrix. <i>Electrophoresis</i> , 2019 , 40, 2104-2111	3.6	5
150	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
149	Fluid release pressure for nanochannels: the Young-Laplace equation using the effective contact angle. <i>Nanoscale</i> , 2019 , 11, 8408-8415	7.7	17

148	Kink effects on thermal transport in silicon nanowires. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 573-578	4.9	6
147	Nanotribological Properties of ALD-Made Ultrathin MoS Influenced by Film Thickness and Scanning Velocity. <i>Langmuir</i> , 2019 , 35, 3651-3657	4	9
146	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
145	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
144	Electrical and thermal conductivities of polycrystalline platinum nanowires. <i>Nanotechnology</i> , 2019 , 30, 455706	3.4	3
143	Analysis of reciprocating O-ring seal in the pressure-balanced oil-filled wet-mate electrical connectors for underwater applications. <i>Lubrication Science</i> , 2019 , 31, 335-345	1.3	2
142	Factors influencing the distribution of arsenic, fluorine and iodine in shallow groundwater in the oasis zone in the southern margin of the Tarim Basin in Xinjiang, P. R. China. <i>E3S Web of Conferences</i> , 2019 , 98, 09006	0.5	
141	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
140	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
139	An Nd-Sensitized Upconversion Fluorescent Sensor for Epirubicin Detection. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
138	Computational modeling of ionic currents through difform graphene nanopores with consistent cross-sectional areas. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26166-26174	3.6	3
137	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
136	Mechanisms of pressure-induced water infiltration process through graphene nanopores. <i>Molecular Simulation</i> , 2019 , 45, 518-524	2	3
135	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
134	Tuning the interfacial thermal conductance via the anisotropic elastic properties of graphite. <i>Carbon</i> , 2019 , 144, 109-115	10.4	13
133	Fabrication of sub-nanometer pores on graphene membrane for ion selective transport. <i>Nanoscale</i> , 2018 , 10, 5350-5357	7.7	31
132	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
131	Study of the reduction mechanism of ironsands with addition of blast furnace bag dust. <i>Metallurgical Research and Technology</i> , 2018 , 115, 214	0.9	4

130	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
129	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
128	Optimal design of graphene nanopores for seawater desalination. <i>Journal of Chemical Physics</i> , 2018 , 148, 014703	3.9	20
127	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
126	Intermittent Pringle Versus Continuous Half-Pringle Maneuver for Laparoscopic Liver Resections of Tumors in Segment 7. <i>Indian Journal of Surgery</i> , 2018 , 80, 146-153	0.3	2
125	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
124	MoS2 solid-lubricating film fabricated by atomic layer deposition on Si substrate. <i>AIP Advances</i> , 2018 , 8, 045216	1.5	10
123	Selective ion-permeation through strained and charged graphene membranes. <i>Nanotechnology</i> , 2018 , 29, 035402	3.4	13
122	The frictional energy dissipation and interfacial heat conduction in the sliding interface. <i>AIP Advances</i> , 2018 , 8, 115321	1.5	4
121	Identification of Spherical and Nonspherical Proteins by a Solid-State Nanopore. <i>Analytical Chemistry</i> , 2018 , 90, 13826-13831	7.8	33
120	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
119	Controllable and reversible DNA translocation through a single-layer molybdenum disulfide nanopore. <i>Nanoscale</i> , 2018 , 10, 19450-19458	7.7	24
118	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
117	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
116	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
115	Hydrophobic copper nanowires for enhancing condensation heat transfer. <i>Nano Energy</i> , 2017 , 33, 177-183	7.1	129
114	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
113	Axial tensile strain effects on the contact thermal conductance between cross contacted single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2017 , 121, 054310	2.5	1

112	Defect Facilitated Phonon Transport through Kinks in Boron Carbide Nanowires. <i>Nano Letters</i> , 2017 , 17, 3550-3555	11.5	16
111	Salt Gradient Improving Signal-to-Noise Ratio in Solid-State Nanopore. <i>ACS Sensors</i> , 2017 , 2, 506-512	9.2	21
110	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
109	Layer-controlled precise fabrication of ultrathin MoS films by atomic layer deposition. <i>Nanotechnology</i> , 2017 , 28, 195605	3.4	32
108	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
107	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
106	A convenient method of manufacturing liquid-gated MoS ₂ field effect transistors. <i>Materials Research Express</i> , 2017 , 4, 105028	1.7	3
105	Phonon transport properties of bulk and monolayer GaN from first-principles calculations. <i>Computational Materials Science</i> , 2017 , 138, 419-425	3.2	25
104	Phonon filtering for reduced thermal conductance in unconventional superlattices. <i>Applied Physics Express</i> , 2017 , 10, 085801	2.4	3
103	Fabrication of liquid-gated molybdenum disulfide field-effect transistor 2017 ,		1
102	High-Performance Graphene-Based Electrostatic Field Sensor. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1136-1138	4.4	10
101	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
100	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
99	Distribution of groundwater arsenic in Xinjiang, P.R. China. <i>Applied Geochemistry</i> , 2017 , 77, 116-125	3.5	26
98	Experimental Research of Protein Translocation Using Solid-state Nanopore. <i>Acta Chimica Sinica</i> , 2017 , 75, 1121	3.3	2
97	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
96	Thermal transport across symmetric and asymmetric solid-solid interfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	3
95	Geometric tuning of thermal conductivity in three-dimensional anisotropic phononic crystals. <i>Nanoscale</i> , 2016 , 8, 16612-20	7.7	19

94	Carrier dynamics in femtosecond-laser-excited bismuth telluride. <i>Physical Review B</i> , 2016 , 93,	3.3	9
93	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
92	Direction Dependence of Resistive-Pulse Amplitude in Conically Shaped Mesopores. <i>Analytical Chemistry</i> , 2016 , 88, 4917-25	7.8	31
91	Ionic Behavior in Highly Concentrated Aqueous Solutions Nanoconfined between Discretely Charged Silicon Surfaces. <i>Langmuir</i> , 2016 , 32, 4806-14	4	19
90	Thermal conductivity of individual silicon nanoribbons. <i>Nanoscale</i> , 2016 , 8, 17895-17901	7.7	40
89	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
88	A microfluidic device for generation of chemical gradients. <i>Microsystem Technologies</i> , 2015 , 21, 1797-1804	10.7	7
87	Experimental and Theoretical Investigations on the Nanoscale Kinetic Friction in Ambient Environmental Conditions. <i>Nano Letters</i> , 2015 , 15, 4704-12	11.5	13
86	Defect-Engineered Heat Transport in Graphene: A Route to High Efficient Thermal Rectification. <i>Scientific Reports</i> , 2015 , 5, 11962	4.9	82
85	Glass capillary nanopore for single molecule detection. <i>Science China Technological Sciences</i> , 2015 , 58, 803-812	3.5	16
84	Manipulation of interfacial thermal conductance via Rhodamine 6G. <i>Science Bulletin</i> , 2015 , 60, 654-656	10.6	1
83	Thermal conductivity of electrospun polyethylene nanofibers. <i>Nanoscale</i> , 2015 , 7, 16899-908	7.7	75
82	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
81	Wafer-level site-controlled growth of silicon nanowires by Cu pattern dewetting. <i>Nano Research</i> , 2015 , 8, 2646-2653	10	3
80	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
79	Thermal conductivity of zinc blende and wurtzite CdSe nanostructures. <i>Nanoscale</i> , 2015 , 7, 16071-8	7.7	5
78	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
77	Counterions and water molecules in charged silicon nanochannels: the influence of surface charge discreteness. <i>Molecular Simulation</i> , 2015 , 41, 1187-1192	2	5

76	Effects of interfacial roughness on phonon transport in bilayer silicon thin films. <i>Physical Review B</i> , 2015 , 92,	3.3	8
75	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
74	Phonon transport properties in pillared silicon film. <i>Journal of Applied Physics</i> , 2015 , 118, 155103	2.5	26
73	Structure and properties of water film adsorbed on mica surfaces. <i>Journal of Chemical Physics</i> , 2015 , 143, 104705	3.9	23
72	Influence of coherent optical phonon on ultrafast energy relaxation. <i>Applied Physics Letters</i> , 2015 , 107, 063107	3.4	4
71	The contact area dependent interfacial thermal conductance. <i>AIP Advances</i> , 2015 , 5, 127111	1.5	8
70	Cross-plane phonon transport properties of molybdenum disulphide. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 465303	3	4
69	Study of DNA adsorption on mica surfaces using a surface force apparatus. <i>Scientific Reports</i> , 2015 , 5, 8442	4.9	26
68	Intramolecular C-H Bond Activation in Bridged Dicyclopentadienyl Dimethyl Dinuclear Complexes. <i>Organometallics</i> , 2014 , 33, 240-248	3.8	6
67	Mode dependent lattice thermal conductivity of single layer graphene. <i>Journal of Applied Physics</i> , 2014 , 116, 153503	2.5	53
66	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
65	Phonon Transport through Point Contacts between Graphitic Nanomaterials. <i>Physical Review Letters</i> , 2014 , 112,	7.4	52
64	Ion specificity in NaCl solution confined in silicon nanochannels. <i>Science China Technological Sciences</i> , 2014 , 57, 230-238	3.5	8
63	Immunoglobulin molecules detection with nanopore sensors fabricated from glass tubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 4043-9	1.3	3
62	Retarding and manipulating of DNA molecules translocation through nanopores. <i>Science Bulletin</i> , 2014 , 59, 4908-4917		7
61	Molecular Dynamics Studies of Homogeneous and Heterogeneous Thermal Bubble Nucleation. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	9
60	Integrated solid-state nanopore devices for third generation DNA sequencing. <i>Science China Technological Sciences</i> , 2014 , 57, 1925-1935	3.5	5
59	Phonon mean free path of graphite along the c-axis. <i>Applied Physics Letters</i> , 2014 , 104, 081903	3.4	53

58	DNA sequencing technology based on nanopore sensors by theoretical calculations and simulations. <i>Science Bulletin</i> , 2014 , 59, 4929-4941		11
57	Imaging the condensation and evaporation of molecularly thin ethanol films with surface forces apparatus. <i>Review of Scientific Instruments</i> , 2014 , 85, 013702	1.7	2
56	Theoretical and experimental studies on ionic currents in nanopore-based biosensors. <i>IET Nanobiotechnology</i> , 2014 , 8, 247-56	2	2
55	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
54	Molecular dynamics study of DNA translocation through graphene nanopores. <i>Physical Review E</i> , 2013 , 87, 062707	2.4	33
53	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
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