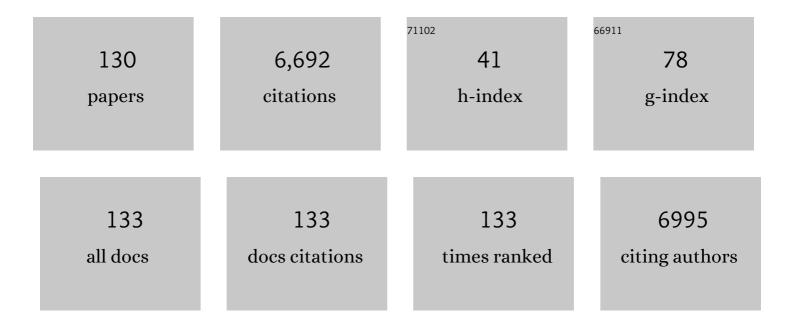
List of Publications by Year in descending order

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TENCEELLUO

#	Article	IF	CITATIONS
1	Enhanced thermal transport across the interface between charged graphene and poly(ethylene oxide) by non-covalent functionalization. International Journal of Heat and Mass Transfer, 2022, 183, 122188.	4.8	15
2	Physics-informed deep learning for solving phonon Boltzmann transport equation with large temperature non-equilibrium. Npj Computational Materials, 2022, 8, .	8.7	23
3	Predicting Diffusion Coefficients of Binary and Ternary Supercritical Water Mixtures via Machine and Transfer Learning with Deep Neural Network. Industrial & Engineering Chemistry Research, 2022, 61, 8542-8550.	3.7	12
4	Exploring High Thermal Conductivity Amorphous Polymers Using Reinforcement Learning. ACS Applied Materials & Interfaces, 2022, 14, 15587-15598.	8.0	21
5	Molecular understanding of the effect of hydrogen on graphene growth by plasma-enhanced chemical vapor deposition. Physical Chemistry Chemical Physics, 2022, 24, 10297-10304.	2.8	3
6	Effect of side-chain ï€â€"ï€ stacking on the thermal conductivity switching in azobenzene polymers: a molecular dynamics simulation study. Physical Chemistry Chemical Physics, 2022, 24, 10272-10279.	2.8	3
7	Graphene petal foams with hierarchical micro- and nano-channels for ultrafast spontaneous and continuous oil recovery. Journal of Materials Chemistry A, 2022, 10, 11651-11658.	10.3	4
8	Structured illumination with thermal imaging (SI-TI): A dynamically reconfigurable metrology for parallelized thermal transport characterization. Applied Physics Reviews, 2022, 9, .	11.3	3
9	Enhanced water evaporation under spatially gradient electric Fields: A molecular dynamics study. Journal of Molecular Liquids, 2022, 360, 119410.	4.9	6
10	Anisotropically tuning interfacial thermal conductance between graphite and poly(ethylene oxide) by lithium-ion intercalation: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2022, 195, 123134.	4.8	9
11	Effect of electric field on water free energy in graphene nanochannel. Journal of Applied Physics, 2022, 132, .	2.5	2
12	Spontaneous Crystallization for Tailoring Polymorphic Nanoscale Nickel with Superior Hardness. Journal of Physical Chemistry C, 2022, 126, 12301-12312.	3.1	3
13	Phonon Dephasing Dynamics in MoS ₂ . Nano Letters, 2021, 21, 1434-1439.	9.1	5
14	lonic liquid enables highly efficient low temperature desalination by directional solvent extraction. Nature Communications, 2021, 12, 437.	12.8	42
15	Plasmon Hybridization-Induced Ultra-broadband High Absorption from 0.4 to 1.8 Microns in Titanium Nitride Metastructures. Plasmonics, 2021, 16, 799-809.	3.4	5
16	A predictive model for self-, Maxwell-Stefan, and Fick diffusion coefficients of binary supercritical water mixtures. Journal of Molecular Liquids, 2021, 324, 114735.	4.9	13
17	High In-Plane Thermal Conductivity of Aluminum Nitride Thin Films. ACS Nano, 2021, 15, 9588-9599.	14.6	58
18	Ballistic Brownian motion of supercavitating nanoparticles. Physical Review E, 2021, 103, 042104.	2.1	7

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19	Thermal Transport in Polymers: A Review. Journal of Heat Transfer, 2021, 143, .	2.1	32
20	Thermal Conductivity of Pentiptycene-Based Poly(o-hydroxyimide) Copolymers: A Study via Integrated Experiments and Simulations. ACS Applied Polymer Materials, 2021, 3, 2979-2987.	4.4	6
21	Optically Driven Cold Nanoparticles Seed Surface Bubble Nucleation in Plasmonic Suspension. Nano Letters, 2021, 21, 5485-5492.	9.1	10
22	Physics-informed neural networks for solving multiscale mode-resolved phonon Boltzmann transport equation. Materials Today Physics, 2021, 19, 100429.	6.0	25
23	Phase profile in superposition of Bessel beam modulates local axial optical force on Rayleigh and Mie dielectric spheres. Optik, 2021, 242, 167032.	2.9	1
24	Pentiptycene-based ladder polymers with configurational free volume for enhanced gas separation performance and physical aging resistance. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	40
25	Thermal transport in superconducting niobium nitride: A first-principles study. Applied Physics Letters, 2021, 118, 043102.	3.3	2
26	High thermal conductivity and thermal boundary conductance of homoepitaxially grown gallium nitride (GaN) thin films. Physical Review Materials, 2021, 5, .	2.4	10
27	Molecular-Level Understanding of Efficient Thermal Transport across the Silica–Water Interface. Journal of Physical Chemistry C, 2021, 125, 24115-24125.	3.1	10
28	Plasmonic Nanobubbles–A Perspective. Journal of Physical Chemistry C, 2021, 125, 25357-25368.	3.1	19
29	Impact of surface and pore characteristics on fatigue life of laser powder bed fusion Ti–6Al–4V alloy described by neural network models. Scientific Reports, 2021, 11, 20424.	3.3	21
30	Negative optical force field on supercavitating titanium nitride nanoparticles by a single plane wave. Nanophotonics, 2021, 11, 79-86.	6.0	2
31	Experimental observation of localized interfacial phonon modes. Nature Communications, 2021, 12, 6901.	12.8	46
32	Solar–Thermal Water Evaporation: A Review. ACS Energy Letters, 2020, 5, 437-456.	17.4	224
33	A deep neural network interatomic potential for studying thermal conductivity of <i>l²</i> -Ga2O3. Applied Physics Letters, 2020, 117, .	3.3	43
34	PI1M: A Benchmark Database for Polymer Informatics. Journal of Chemical Information and Modeling, 2020, 60, 4684-4690.	5.4	69
35	Plasma-Made Graphene Nanostructures with Molecularly Dispersed F and Na Sites for Solar Desalination of Oil-Contaminated Seawater with Complete In-Water and In-Air Oil Rejection. ACS Applied Materials & Interfaces, 2020, 12, 38512-38521.	8.0	32
36	Thermal conductance across harmonic-matched epitaxial Al-sapphire heterointerfaces. Communications Physics, 2020, 3, .	5.3	41

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37	Transport Phenomena in Nano/Molecular Confinements. ACS Nano, 2020, 14, 16348-16391.	14.6	55
38	Dual-mode solid-state thermal rectification. Nature Communications, 2020, 11, 4346.	12.8	37
39	Leverage electron properties to predict phonon properties via transfer learning for semiconductors. Science Advances, 2020, 6, .	10.3	26
40	Ballistic supercavitating nanoparticles driven by single Gaussian beam optical pushing and pulling forces. Nature Communications, 2020, 11, 2404.	12.8	33
41	Direct Arsenic Removal from Water Using Non-Membrane, Low-Temperature Directional Solvent Extraction. Journal of Chemical & Engineering Data, 2020, 65, 2938-2946.	1.9	17
42	Surface Bubble Growth in Plasmonic Nanoparticle Suspension. ACS Applied Materials & Interfaces, 2020, 12, 26680-26687.	8.0	18
43	On interfacial viscosity in nanochannels. Nanoscale, 2020, 12, 14626-14635.	5.6	12
44	Bulk-like Intrinsic Phonon Thermal Conductivity of Micrometer-Thick AlN Films. ACS Applied Materials & Interfaces, 2020, 12, 29443-29450.	8.0	22
45	Biocompatible Direct Deposition of Functionalized Nanoparticles Using Shrinking Surface Plasmonic Bubble. Advanced Materials Interfaces, 2020, 7, 2000597.	3.7	14
46	Transfer Learning Study of Gas Adsorption in Metal–Organic Frameworks. ACS Applied Materials & Interfaces, 2020, 12, 34041-34048.	8.0	58
47	Thermal Conductivity of Polyelectrolytes with Different Counterions. Journal of Physical Chemistry C, 2020, 124, 4483-4488.	3.1	17
48	A unified deep neural network potential capable of predicting thermal conductivity of silicon in different phases. Materials Today Physics, 2020, 12, 100181.	6.0	41
49	Increasing ammonia recovery from high-level ammonium wastewater via adding sodium sulfate to prevent nitrogen generation in the cathode. Environmental Research, 2020, 186, 109521.	7.5	3
50	LIS-PRO: A new concept of power generation from low temperature heat using liquid-phase ion-stripping-induced salinity gradient. Energy, 2020, 200, 117593.	8.8	8
51	Experimental observation of high intrinsic thermal conductivity of AlN. Physical Review Materials, 2020, 4, .	2.4	60
52	Long-distance optical pulling of nanoparticle in a low index cavity using a single plane wave. Science Advances, 2020, 6, eaaz3646.	10.3	17
53	Controlling the Rotational Barrier of Single Porphyrin Rotors on Surfaces. Journal of Physical Chemistry B, 2020, 124, 953-960.	2.6	0
54	Tuning Water Slip Behavior in Nanochannels Using Self-Assembled Monolayers. ACS Applied Materials & Interfaces, 2019, 11, 32481-32488.	8.0	16

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55	Effect of light atoms on thermal transport across solid–solid interfaces. Physical Chemistry Chemical Physics, 2019, 21, 17029-17035.	2.8	17
56	Evaluating Polymer Representations via Quantifying Structure–Property Relationships. Journal of Chemical Information and Modeling, 2019, 59, 3110-3119.	5.4	39
57	A phonon wave packet study of thermal energy transport across functionalized hard-soft interfaces. Journal of Applied Physics, 2019, 126, .	2.5	9
58	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. ACS Nano, 2019, 13, 13027-13036.	14.6	34
59	Exfoliated Graphene Leads to Exceptional Mechanical Properties of Polymer Composite Films. ACS Nano, 2019, 13, 1097-1106.	14.6	29
60	Solar Energy Conversion: Multifunctional Solar Waterways: Plasmaâ€Enabled Selfâ€Cleaning Nanoarchitectures for Energyâ€Efficient Desalination (Adv. Energy Mater. 30/2019). Advanced Energy Materials, 2019, 9, 1970119.	19.5	6
61	Beyond lotus: Plasma nanostructuring enables efficient energy and water conversion and use. Nano Energy, 2019, 66, 104125.	16.0	34
62	Multifunctional Solar Waterways: Plasmaâ€Enabled Selfâ€Cleaning Nanoarchitectures for Energyâ€Efficient Desalination. Advanced Energy Materials, 2019, 9, 1901286.	19.5	109
63	Chain length effect on thermal transport in amorphous polymers and a structure–thermal conductivity relation. Physical Chemistry Chemical Physics, 2019, 21, 15523-15530.	2.8	66
64	Exergy Analysis of Directional Solvent Extraction Desalination Process. Entropy, 2019, 21, 321.	2.2	13
65	Role of Ionization in Thermal Transport of Solid Polyelectrolytes. Journal of Physical Chemistry C, 2019, 123, 12659-12665.	3.1	26
66	Light-Guided Surface Plasmonic Bubble Movement via Contact Line De-Pinning by In-Situ Deposited Plasmonic Nanoparticle Heating. ACS Applied Materials & Interfaces, 2019, 11, 48525-48532.	8.0	23
67	High-contrast and reversible polymer thermal regulator by structural phase transition. Science Advances, 2019, 5, eaax3777.	10.3	41
68	Crystalline polymer nanofibers with ultra-high strength and thermal conductivity. Nature Communications, 2018, 9, 1664.	12.8	97
69	Effects of Electrostatic Interaction and Chirality on the Friction Coefficient of Water Flow Inside Single-Walled Carbon Nanotubes and Boron Nitride Nanotubes. Journal of Physical Chemistry C, 2018, 122, 5131-5140.	3.1	26
70	Thermal transport across solid-solid interfaces enhanced by pre-interface isotope-phonon scattering. Applied Physics Letters, 2018, 112, .	3.3	29
71	Liquid phase stabilization versus bubble formation at a nanoscale curved interface. Physical Review E, 2018, 97, 033106.	2.1	3
72	Magnon and phonon dispersion, lifetime, and thermal conductivity of iron from spin-lattice dynamics simulations. Journal of Applied Physics, 2018, 123, .	2.5	40

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73	Thermal Boundary Conductance Across Heteroepitaxial ZnO/GaN Interfaces: Assessment of the Phonon Gas Model. Nano Letters, 2018, 18, 7469-7477.	9.1	53
74	Role of Molecular Polarity in Thermal Transport of Boron Nitride–Organic Molecule Composites. ACS Omega, 2018, 3, 12530-12534.	3.5	26
75	Low-Cost Nanostructures from Nanoparticle-Assisted Large-Scale Lithography Significantly Enhance Thermal Energy Transport across Solid Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 34690-34698.	8.0	23
76	Determining influential descriptors for polymer chain conformation based on empirical force-fields and molecular dynamics simulations. Chemical Physics Letters, 2018, 704, 49-54.	2.6	20
77	Origin of Hydrophilic Surface Functionalization-Induced Thermal Conductance Enhancement across Solid–Water Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 28159-28165.	8.0	29
78	The effect of the block ratio on the thermal conductivity of amorphous polyethylene–polypropylene (PE–PP) diblock copolymers. Physical Chemistry Chemical Physics, 2018, 20, 20534-20539.	2.8	15
79	First-principles study of thermoelectric properties of blue phosphorene. Applied Physics Letters, 2018, 113, 063903.	3.3	12
80	Spectral concentration of thermal conductivity in GaN—A first-principles study. Applied Physics Letters, 2018, 112, .	3.3	18
81	The impact of hydrogenation on the thermal transport of silicene. 2D Materials, 2017, 4, 025002.	4.4	28
82	Molybdenum Carbamate Nanosheets as a New Class of Potential Phase Change Materials. Nano Letters, 2017, 17, 3902-3906.	9.1	3
83	Functionalized Graphene Enables Highly Efficient Solar Thermal Steam Generation. ACS Nano, 2017, 11, 5510-5518.	14.6	330
84	Thermal Rectification Under Transient Conditions: The Role of Thermal Capacitance and Thermal Conductivity. Journal of Heat Transfer, 2017, 139, .	2.1	8
85	Effects of Defects on the Temperatureâ€Dependent Thermal Conductivity of Suspended Monolayer Molybdenum Disulfide Grown by Chemical Vapor Deposition. Advanced Functional Materials, 2017, 27, 1704357.	14.9	44
86	Molecular Fin Effect from Heterogeneous Self-Assembled Monolayer Enhances Thermal Conductance across Hard–Soft Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 33740-33748.	8.0	21
87	Thermal Energy Transport across Hard–Soft Interfaces. ACS Energy Letters, 2017, 2, 2283-2292.	17.4	64
88	Investigation of thermal transport across solid interfaces with randomly distributed nanostructures. , 2017, , .		0
89	The role of optical phonons in intermediate layer-mediated thermal transport across solid interfaces. Physical Chemistry Chemical Physics, 2017, 19, 18407-18415.	2.8	28
90	Modeling of a continuous water desalination process using directional solvent extraction. Desalination, 2017, 420, 114-124.	8.2	27

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91	The role of intermediate layers in thermal transport across GaN/SiC interfaces. , 2017, , .		0
92	Thermal conductivity of Bi ₂ (Se _x Te _{1â^'x}) ₃ alloy films grown by molecular beam epitaxy. APL Materials, 2017, 5, 066101.	5.1	5
93	Tunable Thermal Transport in Polysilsesquioxane (PSQ) Hybrid Crystals. Scientific Reports, 2016, 6, 21452.	3.3	3
94	Intrinsic electron mobility limits in <i>\hat{l}^2</i> -Ga2O3. Applied Physics Letters, 2016, 109, .	3.3	299
95	Nanostructures Significantly Enhance Thermal Transport across Solid Interfaces. ACS Applied Materials & Interfaces, 2016, 8, 35505-35512.	8.0	50
96	Role of Hydrogen Bonds in Thermal Transport across Hard/Soft Material Interfaces. ACS Applied Materials & Interfaces, 2016, 8, 33326-33334.	8.0	91
97	Hydrogenation of Penta-Graphene Leads to Unexpected Large Improvement in Thermal Conductivity. Nano Letters, 2016, 16, 3925-3935.	9.1	142
98	Effect of electric field non-uniformity on droplets coalescence. Physical Chemistry Chemical Physics, 2016, 18, 29786-29796.	2.8	47
99	Nanostructure-enabled significant thermal transport enhancement across solid interfaces. , 2016, , .		0
100	Thermal Conductivity of Wurtzite Zinc-Oxide from First-Principles Lattice Dynamics – a Comparative Study with Gallium Nitride. Scientific Reports, 2016, 6, 22504.	3.3	119
101	Chain conformation-dependent thermal conductivity of amorphous polymer blends: the impact of inter- and intra-chain interactions. Physical Chemistry Chemical Physics, 2016, 18, 32146-32154.	2.8	59
102	Thermal boundary conductance enhancement using experimentally achievable nanostructured interfaces – analytical study combined with molecular dynamics simulation. Physical Chemistry Chemical Physics, 2016, 18, 16794-16801.	2.8	23
103	Role of Chain Morphology and Stiffness in Thermal Conductivity of Amorphous Polymers. Journal of Physical Chemistry B, 2016, 120, 803-812.	2.6	137
104	Structural Phase- and Degradation-Dependent Thermal Conductivity of CH ₃ NH ₃ Pbl ₃ Perovskite Thin Films. Journal of Physical Chemistry C, 2016, 120, 6394-6401.	3.1	53
105	Thermal Diodes: Giant Thermal Rectification from Polyethylene Nanofiber Thermal Diodes (Small) Tj ETQq1 1 0.78	34314 rgB ⁻ 10 . 0	T /Qverlock I
106	A Revisit to High Thermoelectric Performance of Single-layer MoS2. Scientific Reports, 2015, 5, 18342.	3.3	154
107	Ultra-low Thermal Conductivity in Si/Ge Hierarchical Superlattice Nanowire. Scientific Reports, 2015, 5, 16697.	3.3	58
108	Giant Thermal Rectification from Polyethylene Nanofiber Thermal Diodes. Small, 2015, 11, 4657-4665.	10.0	68

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109	Thermal Interface Conductance Between Aluminum and Silicon by Molecular Dynamics Simulations. Journal of Computational and Theoretical Nanoscience, 2015, 12, 168-174.	0.4	78
110	Anisotropic thermal conductivity in single crystal \hat{l}^2 -gallium oxide. Applied Physics Letters, 2015, 106, .	3.3	361
111	Effect of electron-phonon coupling on thermal transport across metal-nonmetal interface —A second look. Europhysics Letters, 2015, 110, 67004.	2.0	26
112	Thermal Transport: Molecular Bridge Enables Anomalous Enhancement in Thermal Transport across Hard-Soft Material Interfaces (Adv. Mater. 35/2014). Advanced Materials, 2014, 26, 6092-6092.	21.0	2
113	The importance of anharmonicity in thermal transport across solid-solid interfaces. Journal of Applied Physics, 2014, 115, .	2.5	68
114	Exceptional ion rejection ability of directional solvent for non-membrane desalination. Applied Physics Letters, 2014, 104, 024102.	3.3	26
115	Tuning the thermal conductivity of solar cell polymers through side chain engineering. Physical Chemistry Chemical Physics, 2014, 16, 7764-7771.	2.8	44
116	Resonant bonding leads to low lattice thermal conductivity. Nature Communications, 2014, 5, 3525.	12.8	484
117	Molecular Bridge Enables Anomalous Enhancement in Thermal Transport across Hardâ€ 6 oft Material Interfaces. Advanced Materials, 2014, 26, 6093-6099.	21.0	129
118	Polymer Nanofibers with Outstanding Thermal Conductivity and Thermal Stability: Fundamental Linkage between Molecular Characteristics and Macroscopic Thermal Properties. Journal of Physical Chemistry C, 2014, 118, 21148-21159.	3.1	156
119	Thermal Transport in Graphene Oxide – From Ballistic Extreme to Amorphous Limit. Scientific Reports, 2014, 4, 3909.	3.3	195
120	High-Contrast, Reversible Thermal Conductivity Regulation Utilizing the Phase Transition of Polyethylene Nanofibers. ACS Nano, 2013, 7, 7592-7600.	14.6	78
121	Nanoscale heat transfer – from computation to experiment. Physical Chemistry Chemical Physics, 2013, 15, 3389.	2.8	218
122	Morphology-influenced thermal conductivity of polyethylene single chains and crystalline fibers. Journal of Applied Physics, 2012, 112, .	2.5	95
123	Enhancement of Thermal Energy Transport Across Graphene/Graphite and Polymer Interfaces: A Molecular Dynamics Study. Advanced Functional Materials, 2012, 22, 2495-2502.	14.9	313
124	Very low temperature membrane-free desalination by directional solvent extraction. Energy and Environmental Science, 2011, 4, 1672.	30.8	98
125	Directional solvent for membrane-free water desalination—A molecular level study. Journal of Applied Physics, 2011, 110, .	2.5	34
126	Molecular dynamics simulation of thermal energy transport in polydimethylsiloxane. Journal of Applied Physics, 2011, 109, .	2.5	87

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127	Molecular dynamics study of thermal transport in GaAs-self-assembly monolayer-GaAs junctions with <i>ab initio</i> characterization of thiol-GaAs bonds. Journal of Applied Physics, 2011, 109, .	2.5	33
128	Non-equilibrium molecular dynamics study of thermal energy transport in Au–SAM–Au junctions. International Journal of Heat and Mass Transfer, 2010, 53, 1-11.	4.8	98
129	Equilibrium Molecular Dynamics Study of Lattice Thermal Conductivity/Conductance of Au-SAM-Au Junctions. Journal of Heat Transfer, 2010, 132, .	2.1	41
130	A Computational Framework for Modelling and Simulating Vibrational Mode Dynamics. Modelling and Simulation in Materials Science and Engineering, 0, , .	2.0	3