

# Gang Chen

## List of Publications by Year in descending order

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625  
papers

77,143  
citations

293

139  
h-index

547

264  
g-index

631  
all docs

631  
docs citations

631  
times ranked

36849  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspectives on Molecular-Level Understanding of Thermophysics of Liquids and Future Research Directions. <i>Journal of Heat Transfer</i> , 2022, 144, .	1.2	18
2	Inducing photocarrier separation via 3D porous faveolate cross-linked carbon to enhance photothermal/pyroelectric property. , 2022, 1, 100032.		14
3	Observation of second sound in graphite over 200â€‰K. <i>Nature Communications</i> , 2022, 13, 285.	5.8	36
4	High-performance, flexible thermoelectric generator based on bulk materials. <i>Cell Reports Physical Science</i> , 2022, 3, 100780.	2.8	24
5	On the molecular picture and interfacial temperature discontinuity during evaporation and condensation. <i>International Journal of Heat and Mass Transfer</i> , 2022, 191, 122845.	2.5	6
6	Thermodynamics of hydrogels for applications in atmospheric water harvesting, evaporation, and desalination. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12329-12345.	1.3	9
7	Donnan equilibrium revisited: Coupling between ion concentrations, osmotic pressure, and donnan potential. <i>Journal of Micromechanics and Molecular Physics</i> , 2022, 07, 127-134.	0.7	3
8	Mobility enhancement in heavily doped semiconductors via electron cloaking. <i>Nature Communications</i> , 2022, 13, 2482.	5.8	9
9	Significant reduction in semiconductor interface resistance via interfacial atomic mixing. <i>Physical Review B</i> , 2022, 105, .	1.1	3
10	Nanoscale imaging of phonon dynamics by electron microscopy. <i>Nature</i> , 2022, 606, 292-297.	13.7	34
11	Thermoelectric cooling materials. <i>Nature Materials</i> , 2021, 20, 454-461.	13.3	360
12	Mn-In-Cu co-doping to optimize the thermoelectric properties of SnTe-based materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, .	0.2	3
13	Ionic thermoelectric materials for near ambient temperature energy harvesting. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	40
14	Phonon-engineered extreme thermal conductivity materials. <i>Nature Materials</i> , 2021, 20, 1188-1202.	13.3	254
15	Sustainable polyethylene fabrics with engineered moisture transport for passive cooling. <i>Nature Sustainability</i> , 2021, 4, 715-724.	11.5	72
16	Stretchable Anti-Fogging Tapes for Diverse Transparent Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2103551.	7.8	25
17	Generation and detection of 50 GHz surface acoustic waves by extreme ultraviolet pulses. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	15
18	Non-Fourier phonon heat conduction at the microscale and nanoscale. <i>Nature Reviews Physics</i> , 2021, 3, 555-569.	11.9	103

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19	Evaluation of the diffuse mismatch model for phonon scattering at disordered interfaces. <i>Physical Review B</i> , 2021, 104, .	1.1	12
20	Quasi-one-dimensional thermal transport in trigonal selenium crystal. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 455402.	0.7	0
21	Toward Optimal Heat Transfer of 2D $\leftrightarrow$ 3D Heterostructures via van der Waals Binding Effects. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 46055-46064.	4.0	15
22	Frank-van der Merwe growth in bilayer graphene. <i>Matter</i> , 2021, 4, 3339-3353.	5.0	20
23	Practical development of efficient thermoelectric $\leftrightarrow$ Photovoltaic hybrid systems based on wide-gap solar cells. <i>Applied Energy</i> , 2021, 300, 117343.	5.1	37
24	Thermally regenerative electrochemically cycled flow batteries with pH neutral electrolytes for harvesting low-grade heat. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22501-22514.	1.3	27
25	Green's functions of the Boltzmann transport equation with the full scattering matrix for phonon nanoscale transport beyond the relaxation-time approximation. <i>Physical Review B</i> , 2021, 104, .	1.1	10
26	First-Principles Study of All Thermoelectric Properties of $\text{Si-Ge}$ Alloys Showing Large Phonon Drag from 150 to 1100 $\text{\AA}$ . <i>Physical Review Applied</i> , 2021, 16, .	1.5	8
27	Thermal energy storage radiatively coupled to a supercritical Rankine cycle for electric grid support. <i>Renewable Energy</i> , 2020, 145, 604-621.	4.3	22
28	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. <i>Science</i> , 2020, 367, 555-559.	6.0	177
29	A Passive High-Temperature High-Pressure Solar Steam Generator for Medical Sterilization. <i>Joule</i> , 2020, 4, 2733-2745.	11.7	76
30	Direct observation of large electron $\leftrightarrow$ phonon interaction effect on phonon heat transport. <i>Nature Communications</i> , 2020, 11, 6040.	5.8	41
31	Dynamic intermolecular interactions through hydrogen bonding of water promote heat conduction in hydrogels. <i>Materials Horizons</i> , 2020, 7, 2936-2943.	6.4	33
32	Intrinsic nonreciprocal reflection and violation of Kirchhoff's law of radiation in planar type-I magnetic Weyl semimetal surfaces. <i>Physical Review B</i> , 2020, 102, .	1.1	69
33	Ultrasensitive ambient-stable $\text{SnSe}_2$ -based broadband photodetectors for room-temperature IR/THz energy conversion and imaging. <i>2D Materials</i> , 2020, 7, 035026.	2.0	34
34	Thermal transport for probing quantum materials. <i>MRS Bulletin</i> , 2020, 45, 348-356.	1.7	16
35	Accurate measurement of in-plane thermal conductivity of layered materials without metal film transducer using frequency domain thermoreflectance. <i>Review of Scientific Instruments</i> , 2020, 91, 064903.	0.6	29
36	Intermediate-level doping strategy to simultaneously optimize power factor and phonon thermal conductivity for improving thermoelectric figure of merit. <i>Materials Today Physics</i> , 2020, 15, 100250.	2.9	20

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37	Bi-directional tuning of thermal transport in SrCoO <sub>x</sub> with electrochemically induced phase transitions. <i>Nature Materials</i> , 2020, 19, 655-662.	13.3	88
38	Giant thermopower of ionic gelatin near room temperature. <i>Science</i> , 2020, 368, 1091-1098.	6.0	382
39	Optical properties of cubic boron arsenide. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	29
40	Semiconductor glass with superior flexibility and high room temperature thermoelectric performance. <i>Science Advances</i> , 2020, 6, eaaz8423.	4.7	108
41	Thermal transport exceeding bulk heat conduction due to nonthermal micro/nanoscale phonon populations. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	7
42	Quantifying thermal transport in amorphous silicon using mean free path spectroscopy. <i>Physical Review B</i> , 2020, 101, .	1.1	11
43	Large nonreciprocal absorption and emission of radiation in type-I Weyl semimetals with time reversal symmetry breaking. <i>Physical Review B</i> , 2020, 101, .	1.1	84
44	Polymer-Based Metamaterials for Synergistic Light and Heat Management. , 2020, , .		0
45	An annular thermoelectric couple analytical model by considering temperature-dependent material properties and Thomson effect. <i>Energy</i> , 2019, 187, 115922.	4.5	14
46	High thermoelectric cooling performance of n-type Mg <sub>3</sub> Bi <sub>2</sub> -based materials. <i>Science</i> , 2019, 365, 495-498.	6.0	457
47	Effect of electron-phonon interaction on lattice thermal conductivity of SiGe alloys. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	33
48	Anomalous Defect Dependence of Thermal Conductivity in Epitaxial WO <sub>3</sub> Thin Films. <i>Advanced Materials</i> , 2019, 31, e1903738.	11.1	23
49	Nanoscale transient gratings excited and probed by extreme ultraviolet femtosecond pulses. <i>Science Advances</i> , 2019, 5, eaaw5805.	4.7	54
50	Harnessing Heat Beyond 200 Å°C from Unconcentrated Sunlight with Nonevacuated Transparent Aerogels. <i>ACS Nano</i> , 2019, 13, 7508-7516.	7.3	97
51	Thermoelectric properties of electronegatively filled S <sub>y</sub> Co <sub>4x</sub> Ni <sub>x</sub> Sb <sub>12</sub> skutterudites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8079-8085.	2.7	21
52	A Janus evaporator with low tortuosity for long-term solar desalination. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15333-15340.	5.2	170
53	Roles of kink on the thermal transport in single polyethylene chains. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	22
54	Nanostructured polymer films with metal-like thermal conductivity. <i>Nature Communications</i> , 2019, 10, 1771.	5.8	197

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55	Professor Yogesh Jaluria on his 70th Birthday. International Journal of Heat and Mass Transfer, 2019, 140, 1106-1107.	2.5	0
56	Observation of second sound in graphite at temperatures above 100 K. Science, 2019, 364, 375-379.	6.0	160
57	Substantial enhancement of mechanical properties for SnSe based composites with potassium titanate whiskers. Journal of Materials Science: Materials in Electronics, 2019, 30, 8502-8507.	1.1	9
58	Boron isotope effect on the thermal conductivity of boron arsenide single crystals. Materials Today Physics, 2019, 11, 100169.	2.9	14
59	Effect of nucleation sites on the growth and quality of single-crystal boron arsenide. Materials Today Physics, 2019, 11, 100160.	2.9	14
60	Enhanced Thermoelectric Properties for PEDOT:PSS/Undoped Ge Thin-Film Bilayered Heterostructures. Advanced Electronic Materials, 2019, 5, 1800624.	2.6	12
61	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. Nature Communications, 2019, 10, 270.	5.8	227
62	Thermal Hall signatures of non-Kitaev spin liquids in honeycomb Kitaev materials. Physical Review Research, 2019, 1, .	1.3	23
63	Spectral, spatial and polarization-selective perfect absorbers with large magnetic response for sensing and thermal emission control. Optics Express, 2019, 27, A1041.	1.7	2
64	Optical engineering of polymer materials and composites for simultaneous color and thermal management. Optical Materials Express, 2019, 9, 1990.	1.6	33
65	Deep defect level engineering: a strategy of optimizing the carrier concentration for high thermoelectric performance. Energy and Environmental Science, 2018, 11, 933-940.	15.6	188
66	Lower-Stratospheric Control of the Frequency of Sudden Stratospheric Warming Events. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3051-3070.	1.2	19
67	Nano-microstructural control of phonon engineering for thermoelectric energy harvesting. MRS Bulletin, 2018, 43, 181-186.	1.7	111
68	A Hybrid Electric and Thermal Solar Receiver. Joule, 2018, 2, 962-975.	11.7	70
69	Routes for high-performance thermoelectric materials. Materials Today, 2018, 21, 974-988.	8.3	265
70	Thermal transport in semicrystalline polyethylene by molecular dynamics simulation. Journal of Applied Physics, 2018, 123, .	1.1	39
71	Electron mean-free-path filtering in Dirac material for improved thermoelectric performance. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 879-884.	3.3	61
72	Seeded growth of boron arsenide single crystals with high thermal conductivity. Applied Physics Letters, 2018, 112, .	1.5	43

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73	Theory of electron-phonon-dislocation interacting system toward a quantized theory of dislocations. <i>New Journal of Physics</i> , 2018, 20, 023010.	1.2	13
74	Topological Engineering of Interfacial Optical Tamm States for Highly Sensitive Near-Singular-Phase Optical Detection. <i>ACS Photonics</i> , 2018, 5, 929-938.	3.2	87
75	Large thermoelectric power factor from crystal symmetry-protected non-bonding orbital in half-Heuslers. <i>Nature Communications</i> , 2018, 9, 1721.	5.8	111
76	Molecular engineered conjugated polymer with high thermal conductivity. <i>Science Advances</i> , 2018, 4, eaar3031.	4.7	165
77	A salt-rejecting floating solar still for low-cost desalination. <i>Energy and Environmental Science</i> , 2018, 11, 1510-1519.	15.6	645
78	Self-compensation induced vacancies for significant phonon scattering in InSb. <i>Nano Energy</i> , 2018, 48, 189-196.	8.2	30
79	Phonon Hydrodynamic Heat Conduction and Knudsen Minimum in Graphite. <i>Nano Letters</i> , 2018, 18, 638-649.	4.5	83
80	Beneficial Effect of S-Filling on Thermoelectric Properties of $S_x\text{Co}_4\text{Sb}_{11.2}\text{Te}_{0.8}$ Skutterudite. <i>Journal of Electronic Materials</i> , 2018, 47, 3061-3066.	1.0	14
81	Umklapp scattering is not necessarily resistive. <i>Physical Review B</i> , 2018, 98, .	1.1	21
82	Phonon localization in heat conduction. <i>Science Advances</i> , 2018, 4, eaat9460.	4.7	108
83	Thermal conductivity in self-assembled $\text{CoFe}_2\text{O}_4/\text{BiFeO}_3$ vertical nanocomposite films. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	5
84	Advances in thermoelectrics. <i>Advances in Physics</i> , 2018, 67, 69-147.	35.9	383
85	Contactless steam generation and superheating under one sun illumination. <i>Nature Communications</i> , 2018, 9, 5086.	5.8	195
86	Solar-driven interfacial evaporation. <i>Nature Energy</i> , 2018, 3, 1031-1041.	19.8	1,347
87	Engineering a Full Gamut of Structural Colors in All-Dielectric Mesoporous Network Metamaterials. <i>ACS Photonics</i> , 2018, 5, 2120-2128.	3.2	38
88	Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , 2018, 361, 582-585.	6.0	300
89	Efficiency Limits of Solar Energy Harvesting via Internal Photoemission in Carbon Materials. <i>Photonics</i> , 2018, 5, 4.	0.9	3
90	Theoretical efficiency of hybrid solar thermoelectric-photovoltaic generators. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	26

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91	Non-covalent interactions in electrochemical reactions and implications in clean energy applications. Physical Chemistry Chemical Physics, 2018, 20, 15680-15686.	1.3	53
92	Simultaneously high electron and hole mobilities in cubic boron-V compounds: BP, BAs, and BSb. Physical Review B, 2018, 98, .	1.1	55
93	Gas-pressure chemical vapor transport growth of millimeter-sized c-BAs single crystals with moderate thermal conductivity. Applied Physics Letters, 2018, 112, .	1.5	14
94	Spectral concentration of thermal conductivity in GaNâ€”A first-principles study. Applied Physics Letters, 2018, 112, .	1.5	18
95	Discovery of ZrCoBi based half Heuslers with high thermoelectric conversion efficiency. Nature Communications, 2018, 9, 2497.	5.8	243
96	Barotropic and Baroclinic Eddy Feedbacks in the Midlatitude Jet Variability and Responses to Climate Changeâ€”Like Thermal Forcings. Journals of the Atmospheric Sciences, 2017, 74, 111-132.	0.6	14
97	Nonperturbative Quantum Nature of the Dislocationâ€”Phonon Interaction. Nano Letters, 2017, 17, 1587-1594.	4.5	56
98	First-principles mode-by-mode analysis for electron-phonon scattering channels and mean free path spectra in GaAs. Physical Review B, 2017, 95, .	1.1	125
99	Tuning the carrier scattering mechanism to effectively improve the thermoelectric properties. Energy and Environmental Science, 2017, 10, 799-807.	15.6	326
100	Electron energy can oscillate near a crystal dislocation. New Journal of Physics, 2017, 19, 013033.	1.2	13
101	Thermoelectric Properties of n-type ZrNiPb-Based Half-Heuslers. Chemistry of Materials, 2017, 29, 867-872.	3.2	69
102	Ab initio study of electron mean free paths and thermoelectric properties of lead telluride. Materials Today Physics, 2017, 2, 69-77.	2.9	58
103	Manipulation of ionized impurity scattering for achieving high thermoelectric performance in n-type Mg <sub>3</sub> Sb <sub>2</sub> -based materials. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10548-10553.	3.3	267
104	A Microporous and Naturally Nanostructured Thermoelectric Metal-Organic Framework with Ultralow Thermal Conductivity. Joule, 2017, 1, 168-177.	11.7	159
105	Thermal conductivity of GaAs/Ge nanostructures. Applied Physics Letters, 2017, 110, 222105.	1.5	8
106	Nearâ€”Perfect Ultrathin Nanocomposite Absorber with Selfâ€”Formed Topping Plasmonic Nanoparticles. Advanced Optical Materials, 2017, 5, 1700222.	3.6	35
107	Recent progress and future challenges on thermoelectric Zintl materials. Materials Today Physics, 2017, 1, 74-95.	2.9	275
108	Aerogel-based solar thermal receivers. Nano Energy, 2017, 40, 180-186.	8.2	67

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109	Dependence of the Thermal Conductivity of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow}\langle \text{mml:msub}\langle \text{mml:mrow}\langle \text{mml:mi} \text{BiFeO} \langle \text{mml:mi} \rangle \langle \text{mml:mrow}\langle \text{mml:mrow}\langle \text{mml:mn} \text{3} \langle \text{mml:mn} \text{3} \rangle \rangle \rangle \rangle \rangle \rangle$ Thin Films on Polarization and Structure. <i>Physical Review Applied</i> , 2017, 8, .	1.5	31
110	Dirac-electron-mediated magnetic proximity effect in topological insulator/magnetic insulator heterostructures. <i>Physical Review B</i> , 2017, 96, .	1.1	29
111	Tailoring Superconductivity with Quantum Dislocations. <i>Nano Letters</i> , 2017, 17, 4604-4610.	4.5	9
112	Losses in plasmonics: from mitigating energy dissipation to embracing loss-enabled functionalities. <i>Advances in Optics and Photonics</i> , 2017, 9, 775.	12.1	122
113	Unifying first-principles theoretical predictions and experimental measurements of size effects in thermal transport in SiGe alloys. <i>Physical Review Materials</i> , 2017, 1, .	0.9	15
114	Polymer Metamaterial Fabrics for Personal Radiative Thermal Management. , 2017, , .		2
115	PREFACE: THERMAL TRANSPORT IN ADVANCED MATERIALS MANUFACTURING. <i>Annual Review of Heat Transfer</i> , 2017, 20, v.	0.3	0
116	Delineating the Barotropic and Baroclinic Mechanisms in the Midlatitude Eddy-Driven Jet Response to Lower-Tropospheric Thermal Forcing. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 429-448.	0.6	37
117	Empirical Comparison of Random and Periodic Surface Light Trapping Structures for Ultrathin Silicon Photovoltaics. <i>Advanced Optical Materials</i> , 2016, 4, 858-863.	3.6	28
118	Evidence for a spinon Fermi surface in a triangular-lattice quantum-spin-liquid candidate. <i>Nature</i> , 2016, 540, 559-562.	13.7	259
119	Preface to Special Topic: Thermoelectric Materials. <i>APL Materials</i> , 2016, 4, .	2.2	2
120	Monte Carlo study of non-diffusive relaxation of a transient thermal grating in thin membranes. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	27
121	Thermal transport in suspended silicon membranes measured by laser-induced transient gratings. <i>AIP Advances</i> , 2016, 6, .	0.6	40
122	Anderson Localization of Thermal Phonons Leads to a Thermal Conductivity Maximum. <i>Nano Letters</i> , 2016, 16, 7616-7620.	4.5	58
123	Effective dielectric constants and spectral density analysis of plasmonic nanocomposites. <i>Journal of Applied Physics</i> , 2016, 120, 163103.	1.1	29
124	Variational approach to solving the spectral Boltzmann transport equation in transient thermal grating for thin films. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	19
125	The effect of shallow vs. deep level doping on the performance of thermoelectric materials. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	15
126	Thermally conductive separator with hierarchical nano/microstructures for improving thermal management of batteries. <i>Nano Energy</i> , 2016, 22, 301-309.	8.2	73



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127	Molecular dynamics study of the influence of Sb-vacancy defects on the lattice thermal conductivity of crystalline CoSb <sub>3</sub> . Computational Materials Science, 2016, 124, 403-410.	1.4	10
128	Hybrid Optical-Thermal Antennas for Enhanced Light Focusing and Local Temperature Control. ACS Photonics, 2016, 3, 1714-1722.	3.2	16
129	Achieving high power factor and output power density in p-type half-Heuslers Nb <sub>1-x</sub> Ti <sub>x</sub> FeSb. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13576-13581.	3.3	213
130	Three-dimensional graphene enhanced heat conduction of porous crystals. Journal of Porous Materials, 2016, 23, 1647-1652.	1.3	14
131	Variational approach to extracting the phonon mean free path distribution from the spectral Boltzmann transport equation. Physical Review B, 2016, 93, .	1.1	22
132	Toward a High-Efficient Utilization of Solar Radiation by Quad-Band Solar Spectral Splitting. Advanced Materials, 2016, 28, 10659-10663.	11.1	25
133	Steam generation under one sun enabled by a floating structure with thermal concentration. Nature Energy, 2016, 1, .	19.8	870
134	Quantitative analyses of enhanced thermoelectric properties of modulation-doped PEDOT:PSS/undoped Si (001) nanoscale heterostructures. Nanoscale, 2016, 8, 19754-19760.	2.8	31
135	Photo-excited charge carriers suppress sub-terahertz phonon mode in silicon at room temperature. Nature Communications, 2016, 7, 13174.	5.8	47
136	Concentrating solar thermoelectric generators with a peak efficiency of 7.4%. Nature Energy, 2016, 1, .	19.8	269
137	Entropic and Near-Field Improvements of Thermoradiative Cells. Scientific Reports, 2016, 6, 34837.	1.6	74
138	Heat meets light on the nanoscale. Nanophotonics, 2016, 5, 134-160.	2.9	58
139	Roadmap on optical energy conversion. Journal of Optics (United Kingdom), 2016, 18, 073004.	1.0	85
140	Mismatched front and back gratings for optimum light trapping in ultra-thin crystalline silicon solar cells. Optics Communications, 2016, 377, 52-58.	1.0	25
141	New insight into the material parameter B to understand the enhanced thermoelectric performance of Mg <sub>2</sub> Sn <sub>1-x</sub> Ge <sub>x</sub> Sb <sub>y</sub> . Energy and Environmental Science, 2016, 9, 530-539.	15.6	83
142	High thermoelectric performance of n-type PbTe <sub>1-x</sub> S due to deep lying states induced by indium doping and spinodal decomposition. Nano Energy, 2016, 22, 572-582.	8.2	59
143	First-principles calculations of thermal, electrical, and thermoelectric transport properties of semiconductors. Semiconductor Science and Technology, 2016, 31, 043001.	1.0	51
144	Tailoring high-temperature radiation and the resurrection of the incandescent source. Nature Nanotechnology, 2016, 11, 320-324.	15.6	153

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145	PREFACE: PROGRESS FROM BERGLES-ROHSENOWYOUNG INVESTIGATOR AWARD RECIPIENTS. Annual Review of Heat Transfer, 2016, 19, v-vi.	0.3	0
146	Photon Entropy Control and Near-Field Radiative Coupling Improve Efficiency of Thermoradiative Cells. , 2016, , .		0
147	Nanocomposites for thermoelectrics and thermal engineering. MRS Bulletin, 2015, 40, 746-752.	1.7	40
148	<i>Ab initio</i> study of electron-phonon interaction in phosphorene. Physical Review B, 2015, 91, .	1.1	175
149	Measuring Phonon Mean Free Path Distributions by Probing Quasiballistic Phonon Transport in Grating Nanostructures. Scientific Reports, 2015, 5, 17131.	1.6	107
150	Thermoelectric Energy Conversion: Materials, Devices, and Systems. Journal of Physics: Conference Series, 2015, 660, 012066.	0.3	1
151	Enhancement and Tunability of Near-Field Radiative Heat Transfer Mediated by Surface Plasmon Polaritons in Thin Plasmonic Films. Photonics, 2015, 2, 659-683.	0.9	46
152	A Facile Approach to Evaluate Thermal Insulation Performance of Paper Cups. International Journal of Polymer Science, 2015, 2015, 1-8.	1.2	2
153	Infrared-Transparent Visible-Opaque Fabrics for Wearable Personal Thermal Management. ACS Photonics, 2015, 2, 769-778.	3.2	252
154	Spectral mapping of thermal conductivity through nanoscale ballistic transport. Nature Nanotechnology, 2015, 10, 701-706.	15.6	271
155	Significant Reduction of Lattice Thermal Conductivity by the Electron-Phonon Interaction in Silicon with High Carrier Concentrations: A First-Principles Study. Physical Review Letters, 2015, 114, 115901.	2.9	229
156	Thermal Interface Conductance Between Aluminum and Silicon by Molecular Dynamics Simulations. Journal of Computational and Theoretical Nanoscience, 2015, 12, 168-174.	0.4	78
157	Hybrid optical-thermal devices and materials for light manipulation and radiative cooling. Proceedings of SPIE, 2015, , .	0.8	9
158	Effects of Aperiodicity and Roughness on Coherent Heat Conduction in Superlattices. Nanoscale and Microscale Thermophysical Engineering, 2015, 19, 272-278.	1.4	56
159	Enhancement of Thermoelectric Performance of n-Type PbSe by Cr Doping with Optimized Carrier Concentration. Advanced Energy Materials, 2015, 5, 1401977.	10.2	92
160	Hydrodynamic phonon transport in suspended graphene. Nature Communications, 2015, 6, 6290.	5.8	254
161	High thermoelectric conversion efficiency of MgAgSb-based material with hot-pressed contacts. Energy and Environmental Science, 2015, 8, 1299-1308.	15.6	154
162	15.7% Efficient 10- $\mu$ m-Thick Crystalline Silicon Solar Cells Using Periodic Nanostructures. Advanced Materials, 2015, 27, 2182-2188.	11.1	156

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163	Enhancement of thermoelectric performance in n-type PbTe <sub>1-x</sub> Se by doping Cr and tuning Te:Se ratio. Nano Energy, 2015, 13, 355-367.	8.2	36
164	Reconstructing phonon mean-free-path contributions to thermal conductivity using nanoscale membranes. Physical Review B, 2015, 91, .	1.1	111
165	Electrospinning technique synthesis and electrical performances of one dimensional Ca <sub>2</sub> Co <sub>2</sub> O <sub>5</sub> with hierarchical structure. Materials Letters, 2015, 158, 182-185.	1.3	8
166	Thermal Charging Phenomenon in Electrical Double Layer Capacitors. Nano Letters, 2015, 15, 5784-5790.	4.5	67
167	Thin-film Thermal Well™ Emitters and Absorbers for High-Efficiency Thermophotovoltaics. Scientific Reports, 2015, 5, 10661.	1.6	119
168	Aluminum and silicon based phase change materials for high capacity thermal energy storage. Applied Thermal Engineering, 2015, 89, 204-208.	3.0	86
169	Relationship between thermoelectric figure of merit and energy conversion efficiency. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8205-8210.	3.3	415
170	Studies on Thermoelectric Properties of n-type Polycrystalline SnSe <sub>1-x</sub> S <sub>x</sub> by Iodine Doping. Advanced Energy Materials, 2015, 5, 1500360.	10.2	287
171	Enhanced absorption of thin-film photovoltaic cells using an optical cavity. Journal of Optics (United Kingdom), 2015, 17, 110784314.	1.0	23
172	Experimental study of the proposed super-thermal-conductor: BAs. Applied Physics Letters, 2015, 106, .	1.5	68
173	Thermal spin transport of a nitroxide radical-based molecule. RSC Advances, 2015, 5, 20699-20703.	1.7	5
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