

Gang Chen

List of Publications by Year in descending order

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625
papers

77,143
citations

354

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631
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631
docs citations

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times ranked

42325
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 & 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 Si-Ge Alloys Showing Large Phonon Drag from 150 to 1100 \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 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 thermorefectance. <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 _x 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 ₃ Bi ₂ -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 ₃ 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 _y Co _{4x} Ni _x Sb ₁₂ 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 $S_xCo_4Sb_{11.2}Te_{0.8}$ 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 $CoFe_2O_4/BiFeO_3$ 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 ₃ Sb ₂ -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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127	Molecular dynamics study of the influence of Sb-vacancy defects on the lattice thermal conductivity of crystalline CoSb ₃ . 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 _{1-x} Ti _x 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 ₂ Sn _{1-x} Ge _x Sb _y . Energy and Environmental Science, 2016, 9, 530-539.	15.6	83
142	High thermoelectric performance of n-type PbTe _{1-x} 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 μ 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 _{1-x} 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 ₂ Co ₂ O ₅ 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 _{1-x} S _x 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
174	Epitaxial CrN Thin Films with High Thermoelectric Figure of Merit. Advanced Materials, 2015, 27, 3032-3037.	11.1	59
175	Transition from near-field thermal radiation to phonon heat conduction at sub-nanometre gaps. Nature Communications, 2015, 6, 6755.	5.8	95
176	Limiting efficiencies of solar energy conversion and photo-detection via internal emission of hot electrons and hot holes in gold. , 2015, , .		7
177	Diverging polygon-based modeling (DPBM) of concentrated solar flux distributions. Solar Energy, 2015, 122, 24-35.	2.9	1
178	Concentrating Solar Power. Chemical Reviews, 2015, 115, 12797-12838.	23.0	438
179	First-principles simulation of electron mean-free-path spectra and thermoelectric properties in silicon. Europhysics Letters, 2015, 109, 57006.	0.7	144
180	Enhancing solid-liquid interface thermal transport using self-assembled monolayers. Applied Physics Letters, 2015, 106, .	1.5	65

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181	An ab initio study of multiple phonon scattering resonances in silicon germanium alloys. Journal of Applied Physics, 2015, 117, 174301.	1.1	9
182	Volumetric solar heating of nanofluids for direct vapor generation. Nano Energy, 2015, 17, 290-301.	8.2	350
183	A high-performance spectrally-selective solar absorber based on a yttria-stabilized zirconia cermet with high-temperature stability. Energy and Environmental Science, 2015, 8, 3040-3048.	15.6	102
184	Ab initio optimization of phonon drag effect for lower-temperature thermoelectric energy conversion. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14777-14782.	3.3	75
185	Effect of Te ²⁺ Se ²⁺ S Triple Doping on the Thermoelectric Properties of CoSb ₃ Skutterudites. Journal of Electronic Materials, 2015, 44, 1674-1678.	1.0	8
186	Viscosity and Thermal Conductivity of Stable Graphite Suspensions Near Percolation. Nano Letters, 2015, 15, 127-133.	4.5	32
187	Accurate determination of the total hemispherical emittance and solar absorptance of opaque surfaces at elevated temperatures. Solar Energy Materials and Solar Cells, 2015, 132, 640-649.	3.0	19
188	Enhanced Thermal Stability of W ₂ NiAl ₃ O ₃ Cermet-Based Spectrally Selective Solar Absorbers with Tungsten Infrared Reflectors. Advanced Energy Materials, 2015, 5, 1401042.	10.2	144
189	Determination of Thermal History by Photoluminescence of Core-Shell Quantum Dots Going Through Heating Events. Particle and Particle Systems Characterization, 2015, 32, 65-71.	1.2	13
190	Hybrid Optoplasmonic Structures and Materials: from New Physics to New Functionalities. , 2015, , .		0
191	Electrically tunable near-field radiative heat transfer via ferroelectric materials. Applied Physics Letters, 2014, 105, .	1.5	42
192	Continuous fabrication platform for highly aligned polymer films. Technology, 2014, 02, 189-199.	1.4	21
193	Examining thermal transport through a frequency-domain representation of time-domain thermoreflectance data. Review of Scientific Instruments, 2014, 85, 124903.	0.6	31
194	Thermal conductivity control by oxygen defect concentration modification in reducible oxides: The case of Pr _{0.1} Ce _{0.9} O _{2-δ} thin films. Applied Physics Letters, 2014, 104, .	1.5	17
195	Thermal transport through short-period SiGe nanodot superlattices. Journal of Applied Physics, 2014, 115, 044312.	1.1	22
196	Thermal conductivity of bulk nanostructured lead telluride. Applied Physics Letters, 2014, 104, 021915.	1.5	24
197	Enhancement of the Seebeck Coefficient in Stacked Bi ₂ Se ₃ Nanoplates by Energy Filtering. European Journal of Inorganic Chemistry, 2014, 2014, 2625-2630.	1.0	4
198	Nanoscale thermal transport. II. 2003-2012. Applied Physics Reviews, 2014, 1, 011305.	5.5	1,277

#	ARTICLE	IF	CITATIONS
199	Exceeding the solar cell Shockley-Queisser limit via thermal up-conversion of low-energy photons. Optics Communications, 2014, 314, 71-78.	1.0	26
200	Lattice thermal conductivity of Bi, Sb, and Bi-Sb alloy from first principles. Physical Review B, 2014, 89, .	1.1	55
201	High thermoelectric performance of MgAgSb-based materials. Nano Energy, 2014, 7, 97-103.	8.2	264
202	An electrochemical system for efficiently harvesting low-grade heat energy. Nature Communications, 2014, 5, 3942.	5.8	324
203	First-principles study of thermal transport in FeSb ₂ . Physical Review B, 2014, 89, .	1.1	23
204	Crooked Ag ₂ Te nanowires with rough surfaces: facile microwave-assisted solution synthesis, growth mechanism, and electrical performances. New Journal of Chemistry, 2014, 38, 59-62.	1.4	19
205	Disparate quasiballistic heat conduction regimes from periodic heat sources on a substrate. Journal of Applied Physics, 2014, 116, 064307.	1.1	28
206	Charging-free electrochemical system for harvesting low-grade thermal energy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17011-17016.	3.3	206
207	Membrane-Free Battery for Harvesting Low-Grade Thermal Energy. Nano Letters, 2014, 14, 6578-6583.	4.5	149
208	The Role of Stratospheric Polar Vortex Breakdown in Southern Hemisphere Climate Trends. Journals of the Atmospheric Sciences, 2014, 71, 2335-2353.	0.6	32
209	One-step synthesis of hollow Cr(OH) ₃ micro/nano-hexagonal pellets and the catalytic properties of hollow Cr ₂ O ₃ structures. Journal of Materials Chemistry A, 2014, 2, 12770.	5.2	28
210	High thermal conductivity ultra-high molecular weight polyethylene (UHMWPE) films. , 2014, , .		11
211	Green's function studies of phonon transport across Si/Ge superlattices. Physical Review B, 2014, 89, .	1.1	60
212	A simple differential steady-state method to measure the thermal conductivity of solid bulk materials with high accuracy. Review of Scientific Instruments, 2014, 85, 025108.	0.6	42
213	Resonant bonding leads to low lattice thermal conductivity. Nature Communications, 2014, 5, 3525.	5.8	484
214	Solar steam generation by heat localization. Nature Communications, 2014, 5, 4449.	5.8	1,623
215	Self-decorated Cu _{2-x} Se nanosheets as anode materials for Li ion batteries and electrochemical hydrogen storage. CrystEngComm, 2014, 16, 2810.	1.3	49
216	Generalized Two-Temperature Model for Coupled Phonon-Magnon Diffusion. Physical Review Letters, 2014, 113, 025902.	2.9	27

#	ARTICLE	IF	CITATIONS
217	Optical cavity for improved performance of solar receivers in solar-thermal systems. <i>Solar Energy</i> , 2014, 108, 69-79.	2.9	34
218	High-accuracy direct ZT and intrinsic properties measurement of thermoelectric couple devices. <i>Review of Scientific Instruments</i> , 2014, 85, 045107.	0.6	16
219	Effect of Nanopores on the Phonon Conductivity of Crystalline CoSb ₃ : A Molecular Dynamics Study. <i>Journal of Electronic Materials</i> , 2014, 43, 1842-1846.	1.0	18
220	Immobilization of trypsin on miniature incandescent bulbs for infrared-assisted proteolysis. <i>Analytica Chimica Acta</i> , 2014, 845, 77-84.	2.6	9
221	A review of cermet-based spectrally selective solar absorbers. <i>Energy and Environmental Science</i> , 2014, 7, 1615.	15.6	386
222	Local Field Topology behind Light Localization and Metamaterial Topological Transitions. , 2014, , 259-283.		3
223	COMPREHENSIVE REVIEW OF HEAT TRANSFER IN THERMOELECTRIC MATERIALS AND DEVICES. <i>Annual Review of Heat Transfer</i> , 2014, 17, 425-483.	0.3	72
224	MODELING HEAT CONDUCTION FROM FIRST PRINCIPLES. <i>Annual Review of Heat Transfer</i> , 2014, 17, 9-47.	0.3	17
225	MULTISCALE SIMULATION OF PHONON AND ELECTRON THERMAL TRANSPORT. <i>Annual Review of Heat Transfer</i> , 2014, 17, 1-8.	0.3	18
226	Reliable contact fabrication on nanostructured Bi ₂ Te ₃ -based thermoelectric materials. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6757.	1.3	50
227	Electrical transport properties of microwave-synthesized Bi ₂ Se ₃ nanosheet. <i>CrystEngComm</i> , 2013, 15, 5626.	1.3	33
228	Rapid synthesis of Ag ₂ Se dendrites with enhanced electrical performance by microwave-assisted solution method. <i>New Journal of Chemistry</i> , 2013, 37, 323-328.	1.4	22
229	Fast phase formation of double-filled p-type skutterudites by ball-milling and hot-pressing. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6809.	1.3	85
230	Minimum thermal conductivity in superlattices: A first-principles formalism. <i>Physical Review B</i> , 2013, 87, .	1.1	126
231	Room Temperature Electrical and Thermal Switching CNT/Hexadecane Composites. <i>Advanced Materials</i> , 2013, 25, 4938-4943.	11.1	58
232	The effect of secondary phase on thermoelectric properties of Zn ₄ Sb ₃ compound. <i>Nano Energy</i> , 2013, 2, 1172-1178.	8.2	35
233	An Investigation on the Coupled Thermal-Mechanical-Electrical Response of Automobile Thermoelectric Materials and Devices. <i>Journal of Electronic Materials</i> , 2013, 42, 1762-1770.	1.0	15
234	Plasmonic materials for energy: From physics to applications. <i>Materials Today</i> , 2013, 16, 375-386.	8.3	304

#	ARTICLE	IF	CITATIONS
235	Professor Bud Peterson on his 60th birthday. International Journal of Heat and Mass Transfer, 2013, 58, 3-5.	2.5	0
236	Anisotropy of the Thermal Conductivity in GaAs/AlAs Superlattices. Nano Letters, 2013, 13, 3973-3977.	4.5	75
237	Gallium arsenide thermal conductivity and optical phonon relaxation times from first-principles calculations. Europhysics Letters, 2013, 101, 16001.	0.7	100
238	Understanding of the contact of nanostructured thermoelectric n-type Bi ₂ Te _{2.7} Se _{0.3} legs for power generation applications. Journal of Materials Chemistry A, 2013, 1, 13093.	5.2	133
239	Increased thermoelectric performance by Cl doping in nanostructured AgPb ₁₈ SbSe ₂₀ xClx. Nano Energy, 2013, 2, 1121-1127.	8.2	30
240	Enhancement of thermoelectric figure-of-merit at low temperatures by titanium substitution for hafnium in n-type half-Heuslers Hf _{0.75} Ti Zr _{0.25} NiSn _{0.99} Sb _{0.01} . Nano Energy, 2013, 2, 82-87.	8.2	95
241	Effect of Hf Concentration on Thermoelectric Properties of Nanostructured n-Type Half-Heusler Materials Hf _x Zr _{1-x} NiSn _{0.99} Sb _{0.01} . Advanced Energy Materials, 2013, 3, 1210-1214.	10.2	195
242	Heat Transfer in Thermoelectric Materials and Devices. Journal of Heat Transfer, 2013, 135, .	1.2	119
243	Mixed solvothermal synthesis of hierarchical ZnIn ₂ S ₄ spheres: specific facet-induced photocatalytic activity enhancement and a DFT elucidation. RSC Advances, 2013, 3, 18579.	1.7	17
244	New insights into the growth mechanism of hierarchical architectures of PbTe synthesized through a triethanolamine-assisted solvothermal method and their shape-dependent electrical transport properties. Journal of Materials Chemistry A, 2013, 1, 15355.	5.2	23
245	Direct Measurement of Room-Temperature Nondiffusive Thermal Transport Over Micron Distances in a Silicon Membrane. Physical Review Letters, 2013, 110, 025901.	2.9	330
246	Report on Carbon Nano Material Workshop: Challenges and Opportunities. Nanoscale and Microscale Thermophysical Engineering, 2013, 17, 10-24.	1.4	5
247	Solvothermal synthesis and growth mechanism of Sb ₂ Se ₃ nanoplates with electrochemical hydrogen storage ability. International Journal of Hydrogen Energy, 2013, 38, 10971-10977.	3.8	14
248	Enhancing the Thermoelectric Power Factor by Using Invisible Dopants. Advanced Materials, 2013, 25, 1577-1582.	11.1	61
249	Nanoscale heat transfer from computation to experiment. Physical Chemistry Chemical Physics, 2013, 15, 3389.	1.3	218
250	Thermoelectric property enhancement by Cu nanoparticles in nanostructured FeSb ₂ . Applied Physics Letters, 2013, 102, .	1.5	36
251	Thermoelectric Property Study of Nanostructured n-Type Half-Heuslers (Hf, Zr). Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 102	10.2	145
252	Studies on the Bi ₂ Te ₃ Bi ₂ Se ₃ Bi ₂ S ₃ system for mid-temperature thermoelectric energy conversion. Energy and Environmental Science, 2013, 6, 552-560.	15.6	250

#	ARTICLE	IF	CITATIONS
253	Lifetime of sub-THz coherent acoustic phonons in a GaAs-AlAs superlattice. Applied Physics Letters, 2013, 102, .	1.5	41
254	High thermoelectric performance by resonant dopant indium in nanostructured SnTe. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13261-13266.	3.3	632
255	Skutterudite Unicouple Characterization for Energy Harvesting Applications. Advanced Energy Materials, 2013, 3, 245-251.	10.2	83
256	Metallic Composites Phase-Change Materials for High-Temperature Thermal Energy Storage. , 2013, , .		1
257	Direct and quantitative photothermal absorption spectroscopy of individual particulates. Applied Physics Letters, 2013, 103, 261104.	1.5	3
258	Effect of aluminum on the thermoelectric properties of nanostructured PbTe. Nanotechnology, 2013, 24, 345705.	1.3	44
259	Nanostructured Thermoelectric Materials. Springer Series in Materials Science, 2013, , 255-285.	0.4	17
260	Isotropic and energy-selective electron cloaks on graphene. Physical Review B, 2013, 88, .	1.1	30
261	Non-diffusive relaxation of a transient thermal grating analyzed with the Boltzmann transport equation. Journal of Applied Physics, 2013, 114, 104302.	1.1	58
262	Direct and quantitative broadband absorptance spectroscopy on small objects using Fourier transform infrared spectrometer and bilayer cantilever probes. Applied Physics Letters, 2013, 102, 051901.	1.5	3
263	Modeling of thin-film solar thermoelectric generators. Journal of Applied Physics, 2013, 113, .	1.1	19
264	High Efficiency Solar to Electric Energy Conversion through Spectrum Splitting and Multi-channel Full Spectrum Harvesting. Materials Research Society Symposia Proceedings, 2013, 1493, 31-36.	0.1	1
265	Intrinsic to extrinsic phonon lifetime transition in a GaAs-AlAs superlattice. Journal of Physics Condensed Matter, 2013, 25, 295401.	0.7	6
266	The role of synoptic eddies in the tropospheric response to stratospheric variability. Geophysical Research Letters, 2013, 40, 4933-4937.	1.5	48
267	Size-controlled synthesis and transport properties of Sb ₂ Te ₃ nanoplates. RSC Advances, 2013, 4, 2427-2432.	1.7	12
268	Molecular Gas Film Lubrication. , 2013, , 2309-2313.		1
269	Figure-of-merit enhancement in nanostructured FeSb ₂ Ag _x with Ag ₁ Sb _y nano-inclusions. Nanotechnology, 2012, 23, 505402.	1.3	12
270	Wideband enhancement of infrared absorption in a direct band-gap semiconductor by using nonabsorptive pyramids. Optics Express, 2012, 20, A519.	1.7	9

#	ARTICLE	IF	CITATIONS
271	Disordered stoichiometric nanorods and ordered off-stoichiometric nanoparticles in n-type thermoelectric Bi ₂ Te _{2.7} Se _{0.3} . Journal of Applied Physics, 2012, 112, 093518.	1.1	5
272	Decoupled cantilever arms for highly versatile and sensitive temperature and heat flux measurements. Review of Scientific Instruments, 2012, 83, 104902.	0.6	3
273	Role of phonon dispersion in studying phonon mean free paths in skutterudites. Journal of Applied Physics, 2012, 112, 044305.	1.1	24
274	Fabrication of Low Cost Thermoelectric Materials With Improved Properties Using Modulation-Doping Strategy. , 2012, , .		0
275	Microscopic mechanism of low thermal conductivity in lead telluride. Physical Review B, 2012, 85, .	1.1	115
276	Nanostructured Thermoelectric Materials. , 2012, , 1-50.		6
277	Coherent Phonon Heat Conduction in Superlattices. Science, 2012, 338, 936-939. Experimental determination of the Lorenz number in Cu ₂ Bi ₂ Te _{2.7} Se _{0.3}	6.0	489
278	Thermal interface conductance in Si/Ge superlattices by equilibrium molecular dynamics. Physical Review B, 2012, 85, .	1.1	38
279	Paramagnetic microspheres with core-shell structures. Journal of Materials Science, 2012, 47, 5946-5954.	1.1	128
280	Controllable synthesis and thermoelectric transport properties of binary-phased PbTe/PbSe nanocrystals. CrystEngComm, 2012, 14, 4461.	1.7	1
281	Thermal Percolation in Stable Graphite Suspensions. Nano Letters, 2012, 12, 188-192.	1.3	14
282	Enhancing phonon transmission across a Si/Ge interface by atomic roughness: First-principles study with the Green's function method. Physical Review B, 2012, 86, .	4.5	108
283	Cloaking Core-Shell Nanoparticles from Conducting Electrons in Solids. Physical Review Letters, 2012, 109, 126806.	1.1	58
284	Recent advances in thermoelectric nanocomposites. Nano Energy, 2012, 1, 42-56.	2.9	624
285	Suppression of grain growth by additive in nanostructured p-type bismuth antimony tellurides. Nano Energy, 2012, 1, 183-189.	8.2	57
286	Thermoelectric properties of copper selenide with ordered selenium layer and disordered copper layer. Nano Energy, 2012, 1, 472-478.	8.2	271
287	Glucose assisted synthesis and growth mechanism of hierarchical antimony chalcogenides. CrystEngComm, 2012, 14, 8547.	1.3	11
288			

#	ARTICLE	IF	CITATIONS
289	Hydrothermal synthesis and thermoelectric transport property of PbSâ€“PbTe coreâ€“shell heterostructures. <i>New Journal of Chemistry</i> , 2012, 36, 2574.	1.4	19
290	Enhancement of Thermoelectric Properties by Modulation-Doping in Silicon Germanium Alloy Nanocomposites. <i>Nano Letters</i> , 2012, 12, 2077-2082.	4.5	461
291	Study of the Thermoelectric Properties of Lead Selenide Doped with Boron, Gallium, Indium, or Thallium. <i>Journal of the American Chemical Society</i> , 2012, 134, 17731-17738.	6.6	105
292	Enhancement of thermoelectric figure-of-merit by resonant states of aluminium doping in lead selenide. <i>Energy and Environmental Science</i> , 2012, 5, 5246-5251.	15.6	372
293	Stronger phonon scattering by larger differences in atomic mass and size in p-type half-Heuslers Hf1âˆ“xTixCoSb0.8Sn0.2. <i>Energy and Environmental Science</i> , 2012, 5, 7543.	15.6	244
294	Amine-assisted solution approach for the synthesis and growth mechanism of super-long rough-surfaced Cu7Te4 nanobelts. <i>CrystEngComm</i> , 2012, 14, 6962.	1.3	20
295	Mechanical properties of Bi_xSb₂Te₃ nanostructured thermoelectric material. <i>Nanotechnology</i> , 2012, 23, 065703.	1.3	36
296	Phonon conduction in PbSe, PbTe, and PbTe<math display="inline">Se from first-principles calculations. <i>Physical Review B</i> , 2012, 85, .	1.1	463
297	Effect of Silicon and Sodium on Thermoelectric Properties of Thallium-Doped Lead Telluride-Based Materials. <i>Nano Letters</i> , 2012, 12, 2324-2330.	4.5	64
298	Perspectives on thermoelectrics: from fundamentals to device applications. <i>Energy and Environmental Science</i> , 2012, 5, 5147-5162.	15.6	1,080
299	Nanoscale thermal radiation between two gold surfaces. <i>Applied Physics Letters</i> , 2012, 100, 233114.	1.5	100
300	Efficient Light Trapping in Inverted Nanopyramid Thin Crystalline Silicon Membranes for Solar Cell Applications. <i>Nano Letters</i> , 2012, 12, 2792-2796.	4.5	322
301	Heavy Doping and Band Engineering by Potassium to Improve the Thermoelectric Figure of Merit in p-Type PbTe, PbSe, and PbTe_{1â€“y}Se_y. <i>Journal of the American Chemical Society</i> , 2012, 134, 10031-10038.	6.6	337
302	Modeling of a new recuperative thermoelectric cycle for a tumble dryer. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 1536-1543.	2.5	18
303	Large-scale synthesis and growth habit of 3-D flower-like crystal of PbTe. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 280-287.	1.9	8
304	Heat conduction mechanisms in nanofluids and suspensions. <i>Nano Today</i> , 2012, 7, 124-136.	6.2	132
305	Modeling and optimization of solar thermoelectric generators for terrestrial applications. <i>Solar Energy</i> , 2012, 86, 1338-1350.	2.9	129
306	DIRECT HEAT-TO-ELECTRICITY CONVERSION OF SOLAR ENERGY. <i>Annual Review of Heat Transfer</i> , 2012, 15, 179-230.	0.3	7

#	ARTICLE	IF	CITATIONS
307	Thermal Conductivity Spectroscopy Technique to Measure Phonon Mean Free Paths. Physical Review Letters, 2011, 107, 095901.	2.9	438
308	Recent advances in thermoelectrics. , 2011, , .		3
309	Shape and size controlled synthesis and properties of colloidal IV-VI SnSe nanocrystals. CrystEngComm, 2011, 13, 4161.	1.3	68
310	Ultra-High Thermal Conductivity Polyethylene Nanofibers. , 2011, , .		0
311	High Thermoelectric Figure-of-Merit in Kondo Insulator Nanowires at Low Temperatures. Nano Letters, 2011, 11, 1166-1170.	4.5	30
312	Very low temperature membrane-free desalination by directional solvent extraction. Energy and Environmental Science, 2011, 4, 1672.	15.6	98
313	InAsSb detectors for visible to MWIR high-operating temperature applications. Proceedings of SPIE, 2011, , .	0.8	5
314	Directional solvent for membrane-free water desalination—A molecular level study. Journal of Applied Physics, 2011, 110, .	1.1	34
315	Molecular dynamics simulation of thermal energy transport in polydimethylsiloxane. Journal of Applied Physics, 2011, 109, .	1.1	87
316	A Platform for Thermal Property Measurements and Transmission Electron Microscopy of Nanostructures. , 2011, , .		0
317	On the importance of optical phonons to thermal conductivity in nanostructures. Applied Physics Letters, 2011, 99, .	1.5	137
318	Enhanced Thermoelectric Figure of Merit of p-Type Half-Heuslers. Nano Letters, 2011, 11, 556-560.	4.5	362
319	Reversible temperature regulation of electrical and thermal conductivity using liquid-solid phase transitions. Nature Communications, 2011, 2, 289.	5.8	175
320	Quasiballistic heat transfer studied using the frequency-dependent Boltzmann transport equation. Physical Review B, 2011, 84, .	1.1	109
321	Heat transport in silicon from first-principles calculations. Physical Review B, 2011, 84, .	1.1	618
322	Modeling of concentrating solar thermoelectric generators. Journal of Applied Physics, 2011, 110, .	1.1	73
323	Efficient light-trapping nanostructures in thin silicon solar cells. , 2011, , .		5
324	Thermoelectric energy conversion using nanostructured materials. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
325	Thermal Conductivity of Cage-Like Structures. , 2011, , .		0
326	High-performance flat-panel solar thermoelectric generators with high thermal concentration. Nature Materials, 2011, 10, 532-538.	13.3	987
327	Power Factor Enhancement by Modulation Doping in Bulk Nanocomposites. Nano Letters, 2011, 11, 2225-2230.	4.5	461
328	Optimal Bandwidth for High Efficiency Thermoelectrics. Physical Review Letters, 2011, 107, 226601.	2.9	79
329	Nanoparticle-Enabled Selective Electrodeposition. Advanced Materials, 2011, 23, 2454-2459.	11.1	21
330	Enhancement in Thermoelectric Figure-of-Merit of an n-Type Half-Heusler Compound by the Nanocomposite Approach. Advanced Energy Materials, 2011, 1, 643-647.	10.2	286
331	Thermoelectric Property Studies on Cu-Doped n-type $\text{Cu}_{x}\text{Bi}_{2}\text{Te}_{2.7}\text{Se}_{0.3}$ Nanocomposites. Advanced Energy Materials, 2011, 1, 577-587.	10.2	535
332	Studies on surface preparation and smoothness of nanostructured Bi_2Te_3 -based alloys by electrochemical and mechanical methods. Electrochimica Acta, 2011, 56, 3079-3084.	2.6	23
333	High temperature transport and thermoelectric properties of $\text{Ca}_{3-x}\text{Er}_x\text{Co}_4\text{O}_{9+\delta}$. Physica B: Condensed Matter, 2011, 406, 571-574.	1.3	25
334	Fabrication of a nanostructure thermal property measurement platform. Nanotechnology, 2011, 22, 275308.	1.3	16
335	Thermal conductivity of half-Heusler compounds from first-principles calculations. Physical Review B, 2011, 84, .	1.1	187
336	Effect of selenium deficiency on the thermoelectric properties of n-type In_4Se_3 compounds. Physical Review B, 2011, 83, .	1.1	61
337	Dramatic thermal conductivity reduction by nanostructures for large increase in thermoelectric figure-of-merit of FeSb_2 . Applied Physics Letters, 2011, 99, .	1.5	45
338	Theoretical efficiency of solar thermoelectric energy generators. Journal of Applied Physics, 2011, 109, .	1.1	112
339	Transmission electron microscopy study of Pb-depleted disks in PbTe-based alloys. Journal of Materials Research, 2011, 26, 912-916.	1.2	23
340	Experimental Evidence of Non-Diffusive Thermal Transport in Si and GaAs. Materials Research Society Symposia Proceedings, 2011, 1347, 1.	0.1	11
341	The Role of Planetary Waves in the Downward Influence of Stratospheric Final Warming Events. Journals of the Atmospheric Sciences, 2011, 68, 2826-2843.	0.6	17
342	First-Principles-Based Interatomic Potential for Si and Its Thermal Conductivity. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
343	Quasi-Ballistic Heat Transfer From Metal Nanostructures on Sapphire. , 2011, , .		1
344	Experimental Investigation of Metal-Diamond Thermal Interface Conductance With Different Diamond Surface Terminations. , 2010, , .		0
345	Nonlocal formulation of the Reynolds equation for rarefied gas flow with steep pressure variation. Journal of Applied Physics, 2010, 107, 104316.	1.1	3
346	Experimental Studies on Anisotropic Thermoelectric Properties and Structures of n-Type Bi ₂ Te _{2.7} Se _{0.3} . Nano Letters, 2010, 10, 3373-3378.	4.5	608
347	Enhancement of Thermoelectric Figure of Merit by a Bulk Nanostructuring Approach. Advanced Functional Materials, 2010, 20, 357-376.	7.8	795
348	Dyadic Green's functions and electromagnetic local density of states. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1877-1884.	1.1	31
349	Polyethylene nanofibres with very high thermal conductivities. Nature Nanotechnology, 2010, 5, 251-255.	15.6	718
350	Grids for Applications in High-Temperature High-Resolution Transmission Electron Microscopy. Journal of Nanotechnology, 2010, 2010, 1-6.	1.5	4
351	Thermoelectric property studies on thallium-doped lead telluride prepared by ball milling and hot pressing. Journal of Applied Physics, 2010, 108, .	1.1	49
352	Effects of surface chemistry on thermal conductance at aluminum-diamond interfaces. Applied Physics Letters, 2010, 97, .	1.5	78
353	Vacancy clustering and diffusion in heavily P doped Si. Applied Physics Letters, 2010, 97, 251909.	1.5	6
354	Theoretical studies on the thermoelectric figure of merit of nanograined bulk silicon. Applied Physics Letters, 2010, 97, .	1.5	57
355	Design and Analysis of an In-Plane Thermoelectric Microcooler. Nanoscale and Microscale Thermophysical Engineering, 2010, 14, 95-109.	1.4	6
356	1D-to-3D transition of phonon heat conduction in polyethylene using molecular dynamics simulations. Physical Review B, 2010, 82, .	1.1	101
357	Thermal conductance and phonon transmissivity of metal-graphite interfaces. Journal of Applied Physics, 2010, 107, .	1.1	174
358	Semiclassical model for thermoelectric transport in nanocomposites. Physical Review B, 2010, 82, .	1.1	85
359	Optical Absorption Enhancement in Silicon Nanohole Arrays for Solar Photovoltaics. Nano Letters, 2010, 10, 1012-1015.	4.5	373
360	Effects of nanoscale porosity on thermoelectric properties of SiGe. Journal of Applied Physics, 2010, 107, .	1.1	181

#	ARTICLE	IF	CITATIONS
361	Na ₂ SO ₄ Monocrystal Nanowires' Aspect Ratio Control and Electron Beam Radiolysis. Inorganic Chemistry, 2010, 49, 6748-6754.	1.9	7
362	Toward the Lambertian Limit of Light Trapping in Thin Nanostructured Silicon Solar Cells. Nano Letters, 2010, 10, 4692-4696.	4.5	255
363	Effect of filler mass and binding on thermal conductivity of fully filled skutterudites. Physical Review B, 2010, 82, .	1.1	21
364	HEAT FLOW IN THIN FILMS VIA SURFACE PHONON-POLARITONS. Frontiers in Heat and Mass Transfer, 2010, 1, .	0.1	23
365	Probing Nanoscale Heat and Force Interactions Using Atomic Force Microscopes (AFM). , 2010, , .		0
366	Micro/Nanotransport Phenomena in Renewable Energy and Energy Efficiency. Advances in Mechanical Engineering, 2010, 2, 170590.	0.8	2
367	Thermoelectric properties and efficiency measurements under large temperature differences. Review of Scientific Instruments, 2009, 80, 093901.	0.6	65
368	Quantifying the Eddy Feedback and the Persistence of the Zonal Index in an Idealized Atmospheric Model. Journals of the Atmospheric Sciences, 2009, 66, 3707-3720.	0.6	43
369	Frequency-dependent Monte Carlo simulations of phonon transport in two-dimensional porous silicon with aligned pores. Journal of Applied Physics, 2009, 106, .	1.1	184
370	The Promise of Nanocomposite Thermoelectric Materials. Materials Research Society Symposia Proceedings, 2009, 1166, 1.	0.1	2
371	Nanostructured Bulk Silicon as an Effective Thermoelectric Material. Advanced Functional Materials, 2009, 19, 2445-2452.	7.8	521
372	Nanothermometer Using Single Crystal Silver Nanospheres. Advanced Materials, 2009, 21, 4839-4844.	11.1	30
373	New composite thermoelectric materials for energy harvesting applications. Jom, 2009, 61, 86-90.	0.9	40
374	Hydrogen storage characteristics of nanograined free-standing magnesium-nickel films. Applied Physics A: Materials Science and Processing, 2009, 96, 349-352.	1.1	11
375	Breakdown of the Planck blackbody radiation law at nanoscale gaps. Applied Physics A: Materials Science and Processing, 2009, 96, 357-362.	1.1	69
376	Entropy stabilization of deformed regions characterized by an excess volume for hydrogen storage applications. International Journal of Hydrogen Energy, 2009, 34, 1862-1872.	3.8	9
377	Bulk nanostructured thermoelectric materials: current research and future prospects. Energy and Environmental Science, 2009, 2, 466.	15.6	1,698
378	Structure Study of Bulk Nanograined Thermoelectric Bismuth Antimony Telluride. Nano Letters, 2009, 9, 1419-1422.	4.5	236

#	ARTICLE	IF	CITATIONS
379	Surface Phonon Polaritons Mediated Energy Transfer between Nanoscale Gaps. Nano Letters, 2009, 9, 2909-2913.	4.5	696
380	A benchmark study on the thermal conductivity of nanofluids. Journal of Applied Physics, 2009, 106, .	1.1	897
381	Increased Phonon Scattering by Nanograins and Point Defects in Nanostructured Silicon with a Low Concentration of Germanium. Physical Review Letters, 2009, 102, 196803.	2.9	263
382	Experimental Investigation of Heat Conduction Mechanisms in Nanofluids. Clue on Clustering. Nano Letters, 2009, 9, 4128-4132.	4.5	221
383	Near-Field Radiative Heat Transfer Between Spherical Surfaces. , 2009, , .		0
384	Anomalous heat conduction in polyethylene chains: Theory and molecular dynamics simulations. Physical Review B, 2009, 79, .	1.1	124
385	Nanoscale design to enable the revolution in renewable energy. Energy and Environmental Science, 2009, 2, 559.	15.6	348
386	Explicit Treatment of Hydrogen Atoms in Thermal Simulations of Polyethylene. Nanoscale and Microscale Thermophysical Engineering, 2009, 13, 99-108.	1.4	13
387	Solubility study of Yb in n -type skutterudites $\text{Yb}_{1-x}\text{Co}_x\text{Sb}_3$. Physical Review B, 2009, 80, .	1.1	104
388	Modeling study of thermoelectric SiGe nanocomposites. Physical Review B, 2009, 80, .	1.1	178
389	Enhancement of Thermoelectric Figure-of-Merit by a Nanostructure Approach. Materials Research Society Symposia Proceedings, 2009, 1166, 3.	0.1	5
390	NANOSTRUCTURING IMPACT ON THE ENTHALPY OF FORMATION OF METAL HYDRIDES. , 2009, , .		0
391	Application of SAXS to the study of particle-size-dependent thermal conductivity in silica nanofluids. Journal of Nanoparticle Research, 2008, 10, 1109-1114.	0.8	92
392	Thermal conductivity and viscosity of water-in-oil nanoemulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 326, 67-72.	2.3	72
393	Impact of nanostructuring on the enthalpy of formation of metal hydrides. International Journal of Hydrogen Energy, 2008, 33, 4122-4131.	3.8	101
394	Temperature dependence of the enthalpy of formation of metal hydrides characterized by an excess volume. International Journal of Hydrogen Energy, 2008, 33, 5617-5628.	3.8	18
395	Surface-Plasmon Enhanced Near-Bandgap Light Absorption in Silicon Photovoltaics. Journal of Computational and Theoretical Nanoscience, 2008, 5, 2096-2101.	0.4	21
396	High-Thermoelectric Performance of Nanostructured Bismuth Antimony Telluride Bulk Alloys. Science, 2008, 320, 634-638.	6.0	4,843

#	ARTICLE	IF	CITATIONS
397	Photovoltaic-thermoelectric hybrid systems: A general optimization methodology. Applied Physics Letters, 2008, 92, .	1.5	140
398	Modeling the Thermal Conductivity and Phonon Transport in Nanoparticle Composites Using Monte Carlo Simulation. Journal of Heat Transfer, 2008, 130, .	1.2	258
399	Near-Field Radiation Between a Sphere and Substrates of Different Materials. , 2008, , .		0
400	Measurement of Near-Field Thermal Radiation Between Two Closely-Spaced Glass Plates. , 2008, , .		0
401	Enhanced thermoelectric figure of merit in nanostructured n-type silicon germanium bulk alloy. Applied Physics Letters, 2008, 93, .	1.5	623
402	Enhanced Thermoelectric Figure-of-Merit in Nanostructured p-type Silicon Germanium Bulk Alloys. Nano Letters, 2008, 8, 4670-4674.	4.5	1,014
403	A kinetic theory analysis on the heat transfer in hard drive air bearing. Journal of Applied Physics, 2008, 103, .	1.1	11
404	Heat Transfer Spectroscopy and "Heat Transfer-Distance" Curves. , 2008, , .		0
405	Enhanced Thermoelectric Figure-of-Merit in p-Type Nanostructured Bismuth Antimony Tellurium Alloys Made from Elemental Chunks. Nano Letters, 2008, 8, 2580-2584.	4.5	515
406	Thermal conductance of bimaterial microcantilevers. Applied Physics Letters, 2008, 92, .	1.5	34
407	Near-Field Thermal Radiation: Comparison of Numerical Results and Experiments. , 2008, , .		0
408	An optical pump-probe technique for measuring the thermal conductivity of liquids. Review of Scientific Instruments, 2008, 79, 064902.	0.6	147
409	Enhanced thermal conductivity and viscosity of copper nanoparticles in ethylene glycol nanofluid. Journal of Applied Physics, 2008, 103, .	1.1	367
410	A Review of Heat Transfer Physics. Nanoscale and Microscale Thermophysical Engineering, 2008, 12, 1-60.	1.4	91
411	Pulse accumulation, radial heat conduction, and anisotropic thermal conductivity in pump-probe transient thermoreflectance. Review of Scientific Instruments, 2008, 79, 114902.	0.6	496
412	Thermal near-field radiative transfer between two spheres. Physical Review B, 2008, 77, .	1.1	172
413	Probing the Gold Nanorod~Ligand~Solvent Interface by Plasmonic Absorption and Thermal Decay. Journal of Physical Chemistry C, 2008, 112, 13320-13323.	1.5	79
414	High Thermal Conductivity of Single Polyethylene Chains Using Molecular Dynamics Simulations. Physical Review Letters, 2008, 101, 235502.	2.9	337

#	ARTICLE	IF	CITATIONS
415	Near-field radiative heat transfer between a sphere and a substrate. <i>Physical Review B</i> , 2008, 78, .	1.1	219
416	Silicon nanowires for solar photovoltaic applications. <i>SPIE Newsroom</i> , 2008, , .	0.1	2
417	Chemical Synthesis of Anisotropic Nanocrystalline Sb ₂ Te ₃ and Low Thermal Conductivity of the Compacted Dense Bulk. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 452-456.	0.9	29
418	Thermoelectric Transport in Silicon Germanium Nanocomposite. , 2008, , .		0
419	Modeling the Thermoelectric Properties of Nanocomposites. , 2008, , .		2
420	Modeling Grain Boundary Scattering in Nanocomposites. , 2008, , .		0
421	Report on 6th U.S.â€“Japan Joint Seminar on Nanoscale Transport Phenomenaâ€”Science and Engineering. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2008, 12, 273-293.	1.4	1
422	The Tropospheric Jet Response to Prescribed Zonal Forcing in an Idealized Atmospheric Model. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 2254-2271.	0.6	38
423	Response of the Zonal Mean Atmospheric Circulation to El NiÃ±o versus Global Warming. <i>Journal of Climate</i> , 2008, 21, 5835-5851.	1.2	393
424	Phase Speed Spectra and the Latitude of Surface Westerlies: Interannual Variability and Global Warming Trend. <i>Journal of Climate</i> , 2008, 21, 5942-5959.	1.2	124
425	Reduction of thermal conductivity in wafer-bonded silicon. <i>Applied Physics Letters</i> , 2008, 93, 021917.	1.5	2
426	The great improvement effect of pores on ZT in Co _{1-x} Ni _x Sb ₃ system. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	46
427	Experimental investigation of nanofluid shear and longitudinal viscosities. <i>Applied Physics Letters</i> , 2008, 92, 244107.	1.5	52
428	Integrated electroplated heat spreaders for high power semiconductor lasers. <i>Journal of Applied Physics</i> , 2008, 104, 064907.	1.1	3
429	Diffusion of nickel and tin in p-type (Bi,Sb) ₂ Te ₃ and n-type Bi ₂ (Te,Se) ₃ thermoelectric materials. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	97
430	Near-field thermal radiation between two closely spaced glass plates exceeding Planckâ€™s blackbody radiation law. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	270
431	<>A Special Issue on<> Nanoscale Heat Transfer. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008, 5, 1-2.	0.4	130
432	Thermal Conductivity of Polyethylene Chains Using Molecular Dynamics Simulations. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
433	Thermal conductivity of nanoparticle suspensions in insulating media measured with a transient optical grating and a hotwire. Journal of Applied Physics, 2008, 103, 083529.	1.1	23
434	Thermal Conductance of Bi-Material AFM Cantilevers. , 2008, , .		0
435	Nanostructured Thermoelectric Skutterudite $\text{Co}_{1-x}\text{Ni}_x\text{Sb}_3$ Alloys. Journal of Nanoscience and Nanotechnology, 2008, 8, 4003-4006.	0.9	31
436	Special Issue on Energy Nanotechnology. Journal of Heat Transfer, 2008, 130, .	1.2	2
437	Normal Mode Analysis of a Single Polyethylene Chain. , 2008, , .		0
438	Spectral Phonon Transport Properties of Silicon Based on Molecular Dynamics Simulations and Lattice Dynamics. Journal of Computational and Theoretical Nanoscience, 2008, 5, 141-152.	0.4	308
439	Sensitivity of the Latitude of the Surface Westerlies to Surface Friction. Journals of the Atmospheric Sciences, 2007, 64, 2899-2915.	0.6	93
440	Effect of the Excess Volume of Lattice Defects on the Enthalpy of Formation and Desorption Temperature of Metal Hydrides. , 2007, , 45.		0
441	Measurement of silicon dioxide surface phonon-polariton propagation length by attenuated total reflection. Applied Physics Letters, 2007, 91, .	1.5	48
442	A kinetic-theory based first order slip boundary condition for gas flow. Physics of Fluids, 2007, 19, .	1.6	58
443	Thermoelectric property studies on bulk TiO_x with x from 1 to 2. Applied Physics Letters, 2007, 91, .	1.5	86
444	A hot-wire probe for thermal measurements of nanowires and nanotubes inside a transmission electron microscope. Review of Scientific Instruments, 2007, 78, 104903.	0.6	47
445	In-situ TEM Study of Bismuth Nanostructures. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	0
446	NANOCOMPOSITES TO ENHANCE ZT IN THERMOELECTRICS. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	19
447	Analysis of Optical Absorption in Silicon Nanowire Solar Cells. , 2007, , 1285.		2
448	Analysis of Optical Absorption in Silicon Nanowire Arrays for Photovoltaic Applications. Nano Letters, 2007, 7, 3249-3252.	4.5	1,129
449	Modified effective medium formulation for the thermal conductivity of nanocomposites. Applied Physics Letters, 2007, 91, .	1.5	223
450	Photo-Thermoelectric Technique for Anisotropic Thermal Diffusivity Measurements. IEEE Transactions on Components and Packaging Technologies, 2007, 30, 609-617.	1.4	6

#	ARTICLE	IF	CITATIONS
451	Nanostructure and thermoelectric properties of p-type $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ compound prepared by melt spinning technique. , 2007, , .		1
452	Enhanced Ductile Behavior of Tensile-Elongated Individual Double-Walled and Triple-Walled Carbon Nanotubes at High Temperatures. Physical Review Letters, 2007, 98, 185501.	2.9	53
453	Phase speed spectra and the recent poleward shift of Southern Hemisphere surface westerlies. Geophysical Research Letters, 2007, 34, .	1.5	169
454	New Directions for Low-Dimensional Thermoelectric Materials. Advanced Materials, 2007, 19, 1043-1053.	11.1	3,468
455	Size effects on the hydrogen storage properties of nanostructured metal hydrides: A review. International Journal of Energy Research, 2007, 31, 637-663.	2.2	546
456	Extraordinary optical transmission through subwavelength holes in a polaritonic silicon dioxide film. Applied Physics Letters, 2007, 90, 181921.	1.5	31
457	Real-Time Observation of Tubule Formation from Amorphous Carbon Nanowires under High-Bias Joule Heating. Nano Letters, 2006, 6, 1699-1705.	4.5	112
458	Structure and thermoelectric properties of boron doped nanocrystalline $\text{Si}_{0.8}\text{Ge}_{0.2}$ thin film. Journal of Applied Physics, 2006, 100, 054315.	1.1	69
459	Thermoelectric Energy Conversion in Nanostructures. , 2006, , .		1
460	Nanoscale heat transfer and nanostructured thermoelectrics. IEEE Transactions on Components and Packaging Technologies, 2006, 29, 238-246.	1.4	54
461	A modified high-resolution TEM for thermoelectric properties measurements of nanowires and nanotubes. , 2006, 6370, 33.		0
462	Superplastic carbon nanotubes. Nature, 2006, 439, 281-281.	13.7	347
463	Heat Transport in Superlattices and Nanocomposites for Thermoelectric Applications. Advances in Science and Technology, 2006, 46, 104.	0.2	2
464	Aspects of Thin-Film Superlattice Thermoelectric Materials, Devices, and Applications. MRS Bulletin, 2006, 31, 211-217.	1.7	229
465	Kink Formation and Motion in Carbon Nanotubes at High Temperatures. Physical Review Letters, 2006, 97, 075501.	2.9	74
466	Lattice dynamics investigations of phonon thermal conductivity of $\text{Si}^{\wedge}\text{Ge}$ superlattices with rough interfaces. Journal of Applied Physics, 2006, 100, 103505.	1.1	22
467	Near-Field Radiative Energy Transfer Between Two Spheres. , 2006, , .		1
468	Analysis of Heat Conduction in Silicon Using Molecular Dynamics Simulations. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
469	Thermal Conductivity and Specific Heat Measurements of Single Nanowires. , 2005, , 489.		0
470	Thermal radiation in 1D photonic crystals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 93, 175-183.	1.1	27
471	Improvements of on-membrane method for thin film thermal conductivity and emissivity measurements. Sensors and Actuators A: Physical, 2005, 117, 203-210.	2.0	29
472	Nanoscale heat transfer and thermal-electric energy conversion. European Physical Journal Special Topics, 2005, 125, 499-504.	0.2	11
473	Transient cooling of thermoelectric coolers and its applications for microdevices. Energy Conversion and Management, 2005, 46, 1407-1421.	4.4	119
474	1 μ m, 2 μ m, and 3 μ m methods for measurements of thermal properties. Review of Scientific Instruments, 2005, 76, 124902.	0.6	223
475	Potential-step amplified nonequilibrium thermal-electric converters. Journal of Applied Physics, 2005, 97, 083707.	1.1	11
476	Anisotropic thermal properties of nanochanneled alumina templates. Journal of Applied Physics, 2005, 97, 084303.	1.1	54
477	Nanoscale optical waveguides with negative dielectric claddings. Physical Review B, 2005, 71, .	1.1	14
478	Surface phonon-polariton mediated thermal conductivity enhancement of amorphous thin films. Physical Review B, 2005, 72, .	1.1	86
479	High-bias-induced structure and the corresponding electronic property changes in carbon nanotubes. Applied Physics Letters, 2005, 87, 263107.	1.5	41
480	Thermoelectric properties of Si/Ge nano-composite. , 2005, , .		1
481	New Directions for Nanoscale Thermoelectric Materials Research. Materials Research Society Symposia Proceedings, 2005, 886, 1.	0.1	20
482	Thermoelectric Modeling of Si-Si $_{1-x}$ Ge $_x$ Ordered Nanowire Composites. Materials Research Society Symposia Proceedings, 2005, 886, 1.	0.1	0
483	A Model of Nanofluids Thermal Conductivity. , 2005, , 501.		3
484	Enhancement of In-Plane Thermal Conductivity of Thin Films via Surface Phonon-Polaritons. , 2005, , 841.		1
485	Thermal Conductivity of Core-Shell Nanostructures: From Nanowires to Nanocomposites. , 2005, , 895.		2
486	Atomic-Scale Imaging of Wall-by-Wall Breakdown and Concurrent Transport Measurements in Multiwall Carbon Nanotubes. Physical Review Letters, 2005, 94, 236802.	2.9	214

#	ARTICLE	IF	CITATIONS
487	Thermal conductivity of simple and tubular nanowire composites in the longitudinal direction. Physical Review B, 2005, 72, .	1.1	210
488	Thermal Conductivity Modeling of Core-Shell and Tubular Nanowires. Nano Letters, 2005, 5, 1111-1115.	4.5	160
489	Formation of crystallized titania nanotubes and their transformation into nanowires. Nanotechnology, 2005, 16, 1935-1940.	1.3	119
490	Low-dimensional phonon specific heat of titanium dioxide nanotubes. Applied Physics Letters, 2005, 87, 031901.	1.5	34
491	Monte Carlo simulation of thermoelectric properties in nanocomposites. , 2005, , .		2
492	Simulation of Nanoscale Multidimensional Transient Heat Conduction Problems Using Ballistic-Diffusive Equations and Phonon Boltzmann Equation. Journal of Heat Transfer, 2005, 127, 298-306.	1.2	151
493	Monte Carlo Simulation of the Thermal Conductivity and Phonon Transport in Nanocomposites. , 2005, , .		1
494	Thermal Conductivity of Nanostructured Thermoelectric Materials. , 2005, , 42-1-42-16.		20
495	DIRECT COMPUTATION OF THERMAL EMISSION FROM NANOSTRUCTURES. Annual Review of Heat Transfer, 2005, 14, 169-195.	0.3	36
496	Contact Thermal Lithography. , 2005, , .		0
497	Thermal properties of electrodeposited bismuth telluride nanowires embedded in amorphous alumina. Applied Physics Letters, 2004, 85, 6001-6003.	1.5	73
498	Enhancement of evanescent waves in waveguides using metamaterials of negative permittivity and permeability. Applied Physics Letters, 2004, 84, 669-671.	1.5	59
499	Experimental Techniques for Thin-Film Thermal Conductivity Characterization. , 2004, , 205-237.		12
500	Effects of Periodic Structures on the Coherence Properties of Blackbody Radiation. Journal of Heat Transfer, 2004, 126, 786-792.	1.2	21
501	Synthesis, Characterization and Thermal Stability of Highly Crystallized Titania Nanotubes. Materials Research Society Symposia Proceedings, 2004, 836, L1.8.1.	0.1	0
502	THE DISPARATE THERMAL CONDUCTIVITY OF CARBON NANOTUBES AND DIAMOND NANOWIRES STUDIED BY ATOMISTIC SIMULATION. Microscale Thermophysical Engineering, 2004, 8, 61-69.	1.2	80
503	Thermal conductivity modeling of periodic two-dimensional nanocomposites. Physical Review B, 2004, 69, .	1.1	281
504	Engineering nanoscale phonon and photon transport for direct energy conversion. Superlattices and Microstructures, 2004, 35, 161-172.	1.4	40

#	ARTICLE	IF	CITATIONS
505	Processing and thermal properties of highly oriented diamond thin films. <i>Thin Solid Films</i> , 2004, 469-470, 105-111.	0.8	13
506	Modeling of on-membrane thermoelectric power supplies. <i>Sensors and Actuators A: Physical</i> , 2004, 116, 501-508.	2.0	10
507	Experimental Studies on Thermal Conductivity of Thin Films and Superlattices. , 2004, , 167-186.		3
508	Thermal Radiation from Photonic Crystals: A Direct Calculation. <i>Physical Review Letters</i> , 2004, 93, 213905.	2.9	181
509	Thermal conductivity of nanoporous bismuth thin films. <i>Applied Physics Letters</i> , 2004, 84, 1883-1885.	1.5	78
510	Multistage thermoelectric microcoolers. <i>Journal of Applied Physics</i> , 2004, 95, 8226-8232.	1.1	40
511	Thermal conductivity of periodic microporous silicon films. <i>Applied Physics Letters</i> , 2004, 84, 687-689.	1.5	214
512	1D Metallo-Dielectric Photonic Crystals as Selective Emitters for Thermophotovoltaic Applications. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	9
513	Thermal Conductivity and Heat Conduction in Nanostructures: Modeling, Experiments, and Applications. , 2004, , .		0
514	Goos-Hänchen shifts at the interfaces between left- and right-handed media. <i>Optics Letters</i> , 2004, 29, 872.	1.7	103
515	Theoretical phonon thermal conductivity of Si/Ge superlattice nanowires. <i>Journal of Applied Physics</i> , 2004, 95, 682-693.	1.1	369
516	Thermal emission control with one-dimensional metallodielectric photonic crystals. <i>Physical Review B</i> , 2004, 70, .	1.1	165
517	Surface modes for near field thermophotovoltaics. <i>Applied Physics Letters</i> , 2003, 82, 3544-3546.	1.5	352
518	Nonequilibrium electron and phonon transport and energy conversion in heterostructures. <i>Microelectronics Journal</i> , 2003, 34, 201-206.	1.1	8
519	Thermal conductivity of epitaxially textured diamond films. <i>Diamond and Related Materials</i> , 2003, 12, 61-64.	1.8	27
520	Recent developments in thermoelectric materials. <i>International Materials Reviews</i> , 2003, 48, 45-66.	9.4	905
521	Partially coherent phonon heat conduction in superlattices. <i>Physical Review B</i> , 2003, 67, .	1.1	173
522	Theoretical Thermal Conductivity of Periodic Two-Dimensional Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , 2003, 793, 194.	0.1	0

#	ARTICLE	IF	CITATIONS
523	Thermal Conductivity Reduction of SiGe Nanocomposites. Materials Research Society Symposia Proceedings, 2003, 793, 232.	0.1	0
524	Phonon Thermal Conductivity of Superlattice Nanowires for Thermoelectric Applications. Materials Research Society Symposia Proceedings, 2003, 793, 106.	0.1	10
525	Crystallographically-Oriented Electrochemically-Deposited Bismuth Nanowires. Materials Research Society Symposia Proceedings, 2003, 793, 14.	0.1	0
526	Diffusionâ€“transmission interface condition for electron and phonon transport. Applied Physics Letters, 2003, 82, 991-993.	1.5	35
527	Cross-plane thermal conductivity of self-assembled Ge quantum dot superlattices. Physical Review B, 2003, 67, .	1.1	43
528	Thermophysical Properties of Ni Films for LIGA Microsystems. Materials Research Society Symposia Proceedings, 2003, 782, 1.	0.1	2
529	Theoretical Phonon Thermal Conductivity of Si/Ge Superlattice Nanowires. , 2003, , 173.		1
530	Phonon Heat Conduction in Superlattices. Fundamental Materials Research, 2003, , 147-167.	0.1	3
531	Interplay between thermoelectric and thermionic effects in heterostructures. Journal of Applied Physics, 2002, 92, 3152-3161.	1.1	10
532	Supercooling of Peltier cooler using a current pulse. Journal of Applied Physics, 2002, 92, 1564-1569.	1.1	132
533	Thermoelectric Nanowires By Template Synthesis: Fabrication, Contacts and Properties. Materials Research Society Symposia Proceedings, 2002, 739, 7241.	0.1	0
534	Measurements of anisotropic thermoelectric properties in superlattices. Applied Physics Letters, 2002, 81, 3588-3590.	1.5	137
535	Ballistic-Diffusive Equations for Transient Heat Conduction From Nano to Macroscales. Journal of Heat Transfer, 2002, 124, 320-328.	1.2	226
536	Heat Transfer in Nanostructures for Solid-State Energy Conversion. Journal of Heat Transfer, 2002, 124, 242-252.	1.2	211
537	Thermal conductivity of AlAs _{0.07} Sb _{0.93} and Al _{0.9} Ga _{0.1} As _{0.07} Sb _{0.93} alloys and (AlAs) ₁ /(AlSb) ₁₁ digital-alloy superlattices. Journal of Applied Physics, 2002, 92, 4994-4998.	1.1	56
538	Simultaneous measurements of Seebeck coefficient and thermal conductivity across superlattice. Applied Physics Letters, 2002, 80, 1758-1760.	1.5	117
539	Ballistic-diffusive equations for multidimensional nanoscale heat conduction. , 2002, , .		4
540	Phonon Heat Conduction in Thin Films: Impacts of Thermal Boundary Resistance and Internal Heat Generation. Journal of Heat Transfer, 2001, 123, 340-347.	1.2	100

#	ARTICLE	IF	CITATIONS
541	Chapter 5 Phonon transport in low-dimensional structures. Semiconductors and Semimetals, 2001, 71, 203-259.	0.4	92
542	Ballistic-Diffusive Heat-Conduction Equations. Physical Review Letters, 2001, 86, 2297-2300.	2.9	470
543	Data reduction in 3D method for thin-film thermal conductivity determination. Review of Scientific Instruments, 2001, 72, 2139-2147.	0.6	412
544	Anisotropic Thermal Conductivity of Ge Quantum-Dot and Symmetrically Strained Si/Ge Superlattices. Journal of Nanoscience and Nanotechnology, 2001, 1, 39-42.	0.9	65
545	Classical Size Effect on In-plane Thermoelectric Transport at Low Dimension. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	1
546	In-plane Thermal and Electronic Transport in Quantum Dot Superlattice. Materials Research Society Symposia Proceedings, 2001, 677, 491.	0.1	0
547	Cross-Plane Thermoelectric Properties in Si/Ge Superlattices. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	2
548	Geometric Effects on the Transient Cooling of Thermoelectric Coolers. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	4
549	Thermal Characterization of Nanowire Array in Al_2O_3 Matrix. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	11
550	Engineering thermophysical properties of micro- and nanostructures. International Journal of Thermal Sciences, 2001, 40, 693-701.	2.6	5
551	Growth of Ge quantum dot superlattices for thermoelectric applications. Journal of Crystal Growth, 2001, 227-228, 1111-1115.	0.7	24
552	Thermal conductivity of symmetrically strained Si/Ge superlattices. Superlattices and Microstructures, 2000, 28, 199-206.	1.4	235
553	Computation of thermal conductivity of Si/Ge superlattices by molecular dynamics techniques. Microelectronics Journal, 2000, 31, 815-819.	1.1	113
554	Experimental study of a surfactant-assisted SiGe graded layer and a symmetrically strained Si/Ge superlattice for thermoelectric applications. Thin Solid Films, 2000, 369, 121-125.	0.8	9
555	Enhancement of the thermoelectric figure of merit of $\text{Si}_{1-x}\text{Ge}_x$ quantum wires due to spatial confinement of acoustic phonons. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 8, 13-18.	1.3	25
556	Phonon heat conduction in nanostructures. International Journal of Thermal Sciences, 2000, 39, 471-480.	2.6	168
557	Phonon engineering in nanostructures for solid-state energy conversion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 292, 155-161.	2.6	71
558	Particularities of Heat Conduction in Nanostructures. Journal of Nanoparticle Research, 2000, 2, 199-204.	0.8	111

#	ARTICLE	IF	CITATIONS
559	Thermal Conductivity Of Bi/Sb Superlattice. Materials Research Society Symposia Proceedings, 2000, 626, 911.	0.1	0
560	Thermal conductivity of skutterudite thin films and superlattices. Applied Physics Letters, 2000, 77, 3854-3856.	1.5	46
561	Thermoelectric figure of merit enhancement in a quantum dot superlattice. Nanotechnology, 2000, 11, 327-331.	1.3	50
562	Molecular-dynamics simulation of thermal conductivity of silicon crystals. Physical Review B, 2000, 61, 2651-2656.	1.1	325
563	Molecular dynamics of heat transfer in Si/Ge superlattices. High Temperatures - High Pressures, 2000, 32, 709-714.	0.3	9
564	Lattice Dynamics Study of Anisotropic Heat Conduction in Superlattices. Materials Research Society Symposia Proceedings, 2000, 626, 831.	0.1	0
565	Phonon Wave Heat Conduction in Thin Films and Superlattices. Journal of Heat Transfer, 1999, 121, 945-953.	1.2	90
566	Lattice dynamic simulation of silicon thermal conductivity. Physica B: Condensed Matter, 1999, 263-264, 709-712.	1.3	23
567	Molecular dynamics simulation of thermal conductivity of silicon nanowires. Applied Physics Letters, 1999, 75, 2056-2058.	1.5	423
568	Applicability of photothermal radiometry for temperature measurement of semiconductors. International Journal of Heat and Mass Transfer, 1998, 41, 2279-2285.	2.5	7
569	Thin-Film Thermophysical Property Characterization by Scanning Laser Thermoelectric Microscope. International Journal of Thermophysics, 1998, 19, 557-567.	1.0	23
570	Thermal conductivity and ballistic-phonon transport in the cross-plane direction of superlattices. Physical Review B, 1998, 57, 14958-14973.	1.1	967
571	Hot Electron Effects on Thermionic Emission Cooling in Heterostructures. Materials Research Society Symposia Proceedings, 1998, 545, 467.	0.1	2
572	Experimental Study of Phonon-Folding in Si/Ge and Si/SiGe Structures Designed for Thermoelectric Applications. Materials Research Society Symposia Proceedings, 1998, 545, 111.	0.1	3
573	Difference between Wafer Temperature and Thermocouple Reading during rapid Thermal Processing. Materials Research Society Symposia Proceedings, 1998, 525, 103.	0.1	5
574	Prospects for Bismuth Nanowires as Thermoelectrics. Materials Research Society Symposia Proceedings, 1998, 545, 215.	0.1	6
575	Thermal Conductivity and Phonon Engineering in Low-Dimensional Structures. Materials Research Society Symposia Proceedings, 1998, 545, 357.	0.1	8
576	Experimental Study of the Effect of the Quantum Well Structures on the Thermoelectric Figure of Merit in Si/Si _{1-x} Ge _x System. Materials Research Society Symposia Proceedings, 1998, 545, 369.	0.1	9

#	ARTICLE	IF	CITATIONS
577	Anisotropic Thermal Conductivity of A Si/Ge Superlattice. Materials Research Society Symposia Proceedings, 1998, 545, 473.	0.1	13
578	Theoretical Modeling of Thermoelectricity in Bi Nanowires. Materials Research Society Symposia Proceedings, 1998, 545, 87.	0.1	1
579	Temperature measurement of fine wires by photothermal radiometry. Review of Scientific Instruments, 1997, 68, 4080-4083.	0.6	12
580	Photon effect on radiative properties of silicon during rapid thermal processing. Journal of Applied Physics, 1997, 82, 830-835.	1.1	9
581	WAVE EFFECTS ON RADIATIVE TRANSFER IN ABSORBING AND EMITTING THIN-FILM MEDIA. Microscale Thermophysical Engineering, 1997, 1, 215-224.	1.2	17
582	Thermal Conductivity and Heat Transfer in Superlattices. Materials Research Society Symposia Proceedings, 1997, 478, 85.	0.1	6
583	Thermal conductivity and heat transfer in superlattices. Applied Physics Letters, 1997, 71, 2761-2763.	1.5	194
584	Size and Interface Effects on Thermal Conductivity of Superlattices and Periodic Thin-Film Structures. Journal of Heat Transfer, 1997, 119, 220-229.	1.2	362
585	Nonlocal and Nonequilibrium Heat Conduction in the Vicinity of Nanoparticles. Journal of Heat Transfer, 1996, 118, 539-545.	1.2	342
586	Optical effect on thermal emission of semiconductors. Applied Physics Letters, 1996, 69, 512-513.	1.5	2
587	Thermal wave measurement of thin film thermal diffusivity with different laser beam configurations. Review of Scientific Instruments, 1996, 67, 2312-2316.	0.6	29
588	HEAT TRANSFER IN MICRO- AND NANOSCALE PHOTONIC DEVICES. Annual Review of Heat Transfer, 1996, 7, 1-57.	0.3	46
589	A comparative study on the thermal characteristics of vertical cavity surface emitting lasers. Journal of Applied Physics, 1995, 77, 4251-4258.	1.1	31
590	Temperature dependence of thermophysical properties of GaAs/AlAs periodic structure. Applied Physics Letters, 1995, 67, 3554-3556.	1.5	143
591	Challenges in Microscale Conductive and Radiative Heat Transfer. Journal of Heat Transfer, 1994, 116, 799-807.	1.2	140
592	Thermally Induced Optical Nonlinearity During Transient Heating of Thin Films. Journal of Heat Transfer, 1994, 116, 311-316.	1.2	23
593	Thermal Diffusivity Measurement of GaAs/AlGaAs Thin-Film Structures. Journal of Heat Transfer, 1994, 116, 325-331.	1.2	177
594	Pulsed and continuous wave thermal characteristics of external cavity surface emitting laser diodes. Journal of Applied Physics, 1994, 76, 3261-3271.	1.1	17

#	ARTICLE	IF	CITATIONS
595	Size effects on the temperature rise in vertical-cavity surface-emitting laser diodes. International Journal of Heat and Mass Transfer, 1994, 37, 9-17.	2.5	13
596	Thermal diffusivity of GaAs/AlAs superlattices. , 1994, , .		0
597	Facet heating of quantum well lasers. Journal of Applied Physics, 1993, 74, 2167-2174.	1.1	55
598	Thermal conductivities of quantum well structures. Journal of Thermophysics and Heat Transfer, 1993, 7, 311-318.	0.9	103
599	Internal reflection effects on transient photothermal reflectance. Journal of Applied Physics, 1993, 73, 3461-3466.	1.1	19
600	Partial coherence theory of multilayer thin-film optical properties. Optical Engineering, 1993, 32, 1897.	0.5	21
601	Free convection about vertical needles embedded in a saturated porous medium. Journal of Thermophysics and Heat Transfer, 1992, 6, 558-561.	0.9	2
602	Thickness-Dependent Radiative Properties of Y-Ba-Cu-O Thin Films. Journal of Heat Transfer, 1992, 114, 227-233.	1.2	10
603	Partial Coherence Theory of Thin Film Radiative Properties. Journal of Heat Transfer, 1992, 114, 636-643.	1.2	29
604	Thermal conductivity measurement and microscopy of thin film structures. , 0, , .		2
605	Low dimensional thermoelectrics. , 0, , .		24
606	Heat conduction in alloy-based superlattices. , 0, , .		10
607	Modeling thermoelectric behavior in Bi nano-wires. , 0, , .		2
608	Heat conduction in low-dimensional structures. , 0, , .		0
609	Experimental study of the effect of the quantum well structures on the thermoelectric figure of merit in Si/Si/sub 1-x/Ge/sub x/ system. , 0, , .		3
610	MEMS thermoelectric microcooler. , 0, , .		5
611	Nonequilibrium electron and phonon transport in heterostructures for energy conversion. , 0, , .		0
612	Characterization of cross-plane thermoelectric properties of Si/Ge superlattices. , 0, , .		2

#	ARTICLE	IF	CITATIONS
613	In-plane thermoelectric properties of Si/Ge superlattice. , 0, , .		6
614	Thermoelectric property characterization of low-dimensional structures. , 0, , .		2
615	A unified wave-particle treatment for phonon transport in superlattices. , 0, , .		0
616	Thermal conductivity of periodically microporous silicon membranes. , 0, , .		0
617	Modeling the thermal conductivity of a SiGe segmented nanowire. , 0, , .		1
618	Quantum and classical size effects on thermoelectric transport in Si/Ge superlattices. , 0, , .		0
619	Improvements of on-membrane method for thin-film thermal conductivity and emissivity measurements. , 0, , .		9
620	Figure-of-merit and emissivity measurement of fine-grained polycrystalline silicon thin films. , 0, , .		6
621	Transport properties of polycrystalline Si/sub 0.8/Ge/sub 0.2/ thin films for micro power generators. , 0, , .		0
622	Thermal conductivity reduction mechanisms in superlattices. , 0, , .		5
623	Heat conduction in micro-structured materials. , 0, , .		1
624	Nanoscale heat transfer and nanostructured thermoelectrics. , 0, , .		3
625	A photo-thermoelectric technique for anisotropic thermal diffusivity characterization of nanowire/nanotube composites. , 0, , .		2