Baowen Li

List of Publications by Year
in descending order

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		6613	9589
356	23,809	79	142
papers	citations	h-index	g-index

360	360	360	12931
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dual-compressed photoacoustic single-pixel imaging. National Science Review, 2023, 10, .	9.5	7
2	Construction of 3D Conductive Network in Liquid Gallium with Enhanced Thermal and Electrical Performance. Advanced Materials Technologies, 2022, 7, 2100970.	5.8	14
3	Reciprocity of thermal diffusion in time-modulated systems. Nature Communications, 2022, 13, 167.	12.8	24
4	Graded thermal conductivity in 2D and 3D homogeneous hotspot systems. Materials Today Physics, 2022, 22, 100605.	6.0	18
5	Negative rectification and anomalous diffusion in nonlinear substrate potentials: Dynamical relaxation and information entropy. Physical Review E, 2022, 105, 024204.	2.1	4
6	Acoustically manipulating internal structure of disk-in-sphere endoskeletal droplets. Nature Communications, 2022, 13, 987.	12.8	12
7	Thermoelectric Conversion From Interface Thermophoresis and Piezoelectric Effects. Frontiers in Physics, 2022, 10, .	2.1	2
8	Interfacial thermal resistance: Past, present, and future. Reviews of Modern Physics, 2022, 94, .	45.6	178
9	Unified theory of second sound in two-dimensional materials. Physical Review B, 2022, 105, .	3.2	7
10	Diffusion transients in convection rolls. Journal of Fluid Mechanics, 2021, 912, .	3.4	4
11	Transforming heat transfer with thermal metamaterials and devices. Nature Reviews Materials, 2021, 6, 488-507.	48.7	270
12	Bidirectional Elastic Diode with Frequency-Preserved Nonreciprocity. Physical Review Applied, 2021, 15, .	3.8	13
13	Thermal rectification in three dimensional graphite nanocones. International Journal of Heat and Mass Transfer, 2021, 179, 121675.	4.8	5
14	FrÃ¶hlich condensate of phonons in optomechanical systems. Physical Review A, 2021, 104, .	2.5	3
15	Energy diffusion of simple networks under the spatiotemporal thermostats. European Physical Journal B, 2021, 94, 1.	1.5	7
16	Thermal-siphon phenomenon and thermal/electric conduction in complex networks. National Science Review, 2020, 7, 270-277.	9.5	20
17	Thermal Transport in 2D Semiconductorsâ€”Considerations for Device Applications. Advanced Functional Materials, 2020, 30, 1903929.	14.9	71
18	A Ubiquitous Thermal Conductivity Formula for Liquids, Polymer Glass, and Amorphous Solids*. Chinese Physics Letters, 2020, 37, 104401.	3.3	33

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19	Quantum energy transfer between a nonlinearly coupled bosonic bath and a fermionic chain: An exactly solvable model. Physical Review A, 2020, 101, .	2.5	1
20	Monitoring anharmonic phonon transport across interfaces in one-dimensional lattice chains. Physical Review E, 2020, 101, 022133.	2.1	8
21	Single-Shot Compressed Photoacoustic Tomographic Imaging with a Single Detector in a Scattering Medium. Physical Review Applied, 2020, 13, .	3.8	9
22	Effect of Interfacial Thermal Resistance in a Thermal Cloak. Physical Review Applied, 2020, 13, .	3.8	28
23	Probing thermal transport across amorphous region embedded in a single crystalline silicon nanowire. Scientific Reports, 2020, 10, 821.	3.3	7
24	Tunable phonon nanocapacitor built by carbon schwarzite based host-guest system. Physical Review B, 2020, 101, .	3.2	20
25	Phonon Renormalization Induced by Electric Field in Ferroelectric Poly(Vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502 Td	3.8	18
26	Thermal conductivity of one-dimensional organic nanowires: effect of mass difference phonon scattering. Nanotechnology, 2020, 31, 324003.	2.6	3
27	Dark state, zero-index and topology in phononic metamaterials with negative mass and negative coupling. New Journal of Physics, 2019, 21, 093033.	2.9	15
28	Validity of local thermal equilibrium in anomalous heat diffusion. New Journal of Physics, 2019, 21, 083019.	2.9	6
29	Enhanced thermoelectric properties through minority carriers blocking in nanocomposites. Journal of Applied Physics, 2019, 126, 095107.	2.5	8
30	Conformal interface of monolayer molybdenum diselenide/disulfide and dielectric substrate with improved thermal dissipation. Journal Physics D: Applied Physics, 2019, 52, 385306.	2.8	9
31	Anomalous transparency induced by cooperative disorders in phonon transport. Physical Review B, 2019, 99, .	3.2	12
32	Role of radiation in heat transfer from nanoparticles to gas media in photothermal measurements. International Journal of Modern Physics C, 2019, 30, 1950024.	1.7	12
33	New dynamics between volume and volatility. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 1343-1350.	2.6	6
34	ThicknessâEĐependent InâEPlane Thermal Conductivity and Enhanced Thermoelectric Performance in pâEType ZrTe₅ Nanoribbons. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800529.	2.4	22
35	Thermal Conductivity of Polymers and Their Nanocomposites. Advanced Materials, 2018, 30, e1705544.	21.0	442
36	Thermal transport in organic/inorganic composites. Frontiers in Energy, 2018, 12, 72-86.	2.3	13

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37	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. National Science Review, 2018, 5, 500-506.	9.5	43
38	Understanding photon sideband statistics and correlation for determining phonon coherence. Physical Review B, 2018, 97, .	3.2	0
39	Thermal metamaterials: functions and prospects. National Science Review, 2018, 5, 138-141.	9.5	52
40	Thermal conductivity of suspended few-layer MoS₂. Nanoscale, 2018, 10, 2727-2734.	5.6	70
41	A Unified Approach to Nonlinear Transformation Materials. Scientific Reports, 2018, 8, 4436.	3.3	13
42	Measuring the thermal conductivity and interfacial thermal resistance of suspended MoS 2 using electron beam self-heating technique. Science Bulletin, 2018, 63, 452-458.	9.0	54
43	Colloquium: Phononic thermal properties of two-dimensional materials. Reviews of Modern Physics, 2018, 90, .	45.6	238
44	Sensing coherent phonons with two-photon interference. New Journal of Physics, 2018, 20, 023008.	2.9	2
45	Probing the Physical Origin of Anisotropic Thermal Transport in Black Phosphorus Nanoribbons. Advanced Materials, 2018, 30, e1804928.	21.0	50
46	Fullâ€Parameter Omnidirectional Thermal Metadevices of Anisotropic Geometry. Advanced Materials, 2018, 30, e1804019.	21.0	87
47	Thermal rectification in Y-junction carbon nanotube bundle. Carbon, 2018, 140, 673-679.	10.3	42
48	Seismic invisibility: elastic wave cloaking via symmetrized transformation media. New Journal of Physics, 2018, 20, 063013.	2.9	20
49	Reducing lattice thermal conductivity in schwarzites via engineering the hybridized phonon modes. Carbon, 2018, 139, 289-298.	10.3	52
50	Off-center rattling triggers high-temperature thermal transport in thermoelectric clathrates: Nonperturbative approach. Physical Review B, 2018, 97, .	3.2	9
51	Randomness-Induced Phonon Localization in Graphene Heat Conduction. Journal of Physical Chemistry Letters, 2018, 9, 3959-3968.	4.6	110
52	Temperature and frequency dependent mean free paths of renormalized phonons in nonlinear lattices. New Journal of Physics, 2018, 20, 023006.	2.9	7
53	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. Small, 2018, 14, e1801346.	10.0	106
54	Enhanced thermoelectric cooling performance with graded thermoelectric materials. Japanese Journal of Applied Physics, 2018, 57, 071801.	1.5	9

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55	Influence of the degree of a complex network on heat conduction. Physical Review E, 2018, 98, 022115.	2.1	15
56	High thermal conductivity and superior thermal stability of amorphous PMDA/ODA nanofiber. Applied Physics Letters, 2018, 112, .	3.3	12
57	A topological wave transistor protected by the Euler characteristic. Journal of Applied Physics, 2018, 123, 224505.	2.5	2
58	Theoretical investigation on thermoelectric properties of Cu-based chalcopyrite compounds. Physical Review B, 2017, 95, .	3.2	19
59	Thermal transport in graphene with defect and doping: Phonon modes analysis. Carbon, 2017, 116, 139-144.	10.3	118
60	Thermal conduction across a boron nitride and SiO₂interface. Journal Physics D: Applied Physics, 2017, 50, 104002.	2.8	46
61	Hexagonal boron nitride: a promising substrate for graphene with high heat dissipation. Nanotechnology, 2017, 28, 225704.	2.6	79
62	A Series Circuit of Thermal Rectifiers: An Effective Way to Enhance Rectification Ratio. Small, 2017, 13, 1602726.	10.0	51
63	Thermal conductance of the coupled-rotator chain: Influence of temperature and size. Europhysics Letters, 2017, 117, 60004.	2.0	6
64	Thermoelectric transport in hybrid materials incorporating metallic nanowires in polymer matrix. Applied Physics Letters, 2017, 110, .	3.3	16
65	Diffusion of active dimers in a Couette flow. Soft Matter, 2017, 13, 2793-2799.	2.7	7
66	Elastic Modulus and Thermal Conductivity of Thiolene/TiO₂ Nanocomposites. Journal of Physical Chemistry C, 2017, 121, 25568-25575.	3.1	18
67	A method to calculate thermal conductivity of a nonperiodic system, bamboo Si1â^'xGex nanowire with axially degraded components. European Physical Journal B, 2017, 90, 1.	1.5	1
68	Ultralow Thermal Conductivity of Singleâ€Crystalline Porous Silicon Nanowires. Advanced Functional Materials, 2017, 27, 1702824.	14.9	47
69	Hopping processes explain linear rise in temperature of thermal conductivity in thermoelectric clathrates with off-center guest atoms. Physical Review B, 2017, 96, .	3.2	15
70	Negative Gaussian curvature induces significant suppression of thermal conduction in carbon crystals. Nanoscale, 2017, 9, 14208-14214.	5.6	43
71	Energy transfer in the nonequilibrium spin-boson model: From weak to strong coupling. Physical Review E, 2017, 96, 012135.	2.1	31
72	Engineering the thermal conductivity along an individual silicon nanowire by selective helium ion irradiation. Nature Communications, 2017, 8, 15919.	12.8	65

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73	Communication: Cargo towing by artificial swimmers. Journal of Chemical Physics, 2016, 145, 191103.	3.0	8
74	Layer thickness-dependent phonon properties and thermal conductivity of MoS2. Journal of Applied Physics, 2016, 119, .	2.5	136
75	Thermoelectric properties of nanoscale three dimensional Si phononic crystals. International Journal of Heat and Mass Transfer, 2016, 99, 102-106.	4.8	18
76	Phonon thermal conduction in novel 2D materials. Journal of Physics Condensed Matter, 2016, 28, 483001.	1.8	81
77	Quantum thermal transport through anharmonic systems: A self-consistent approach. Physical Review B, 2016, 94, .	3.2	17
78	Variational approach to renormalized phonon in momentum-nonconserving nonlinear lattices. Europhysics Letters, 2016, 114, 40002.	2.0	6
79	Phonon transport in silicon nanowires: The reduced group velocity and surface-roughness scattering. Physical Review B, 2016, 94, .	3.2	9
80	Interfacial thermal conductance across metal-insulator/semiconductor interfaces due to surface states. Physical Review B, 2016, 93, .	3.2	23
81	Phonon-glass dynamics in thermoelectric clathrates. Physical Review B, 2016, 93, .	3.2	13
82	Heat conduction and energy diffusion in momentum-conserving one-dimensional full-lattice ding-a-ling model. Physical Review E, 2016, 93, 022102.	2.1	9
83	Stretch diffusion and heat conduction in one-dimensional nonlinear lattices. Physical Review E, 2016, 93, 032130.	2.1	8
84	Superior thermal conductivity in suspended bilayer hexagonal boron nitride. Scientific Reports, 2016, 6, 25334.	3.3	124
85	Detecting Thermal Cloaks via Transient Effects. Scientific Reports, 2016, 6, 32915.	3.3	19
86	Manipulating the temperature dependence of the thermal conductivity of graphene phononic crystal. Nanotechnology, 2016, 27, 265702.	2.6	32
87	Diffusion of eccentric microswimmers. Soft Matter, 2016, 12, 2017-2024.	2.7	29
88	Spin-dependent Seebeck effect in Aharonovâ€“Bohm rings with Rashba and Dresselhaus spinâ€“orbit interactions. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 80, 163-167.	2.7	6
89	Invisible Sensors: Simultaneous Sensing and Camouflaging in Multiphysical Fields. Advanced Materials, 2015, 27, 7752-7758.	21.0	202
90	Thermoelectric transport through a quantum nanoelectromechanical system and its backaction. Physical Review B, 2015, 91, .	3.2	18

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91	Nanoscale Graphene Disk: A Natural Functionally Graded Materialâ€“How is Fourierâ€™s Law Violated along Radius Direction of 2D Disk. Scientific Reports, 2015, 5, 14878.	3.3	27
92	Transient unidirectional energy flow and diode-like phenomenon induced by non-Markovian environments. Scientific Reports, 2015, 5, 15332.	3.3	9
93	Thermal management in MoS2 based integrated device using near-field radiation. Applied Physics Letters, 2015, 107, .	3.3	39
94	Boosting thermoelectric efficiency using time-dependent control. Scientific Reports, 2015, 5, 14870.	3.3	32
95	Thermal conductivity of penta-graphene from molecular dynamics study. Journal of Chemical Physics, 2015, 143, 154703.	3.0	85
96	Competing for Attention in Social Media under Information Overload Conditions. PLoS ONE, 2015, 10, e0126090.	2.5	78
97	Spin-dependent Seebeck effect in asymmetric four-terminal systems with Rashba spin-orbit coupling. Europhysics Letters, 2015, 110, 38004.	2.0	1
98	Thermal Interface Conductance Between Aluminum and Silicon by Molecular Dynamics Simulations. Journal of Computational and Theoretical Nanoscience, 2015, 12, 168-174.	0.4	78
99	Thermoelectric effect in Aharonovâ€“Bohm structures. Journal of Physics Condensed Matter, 2015, 27, 035301.	1.8	2
100	Thermal boundary conductance across metal-nonmetal interfaces: effects of electron-phonon coupling both in metal and at interface. European Physical Journal B, 2015, 88, 1.	1.5	16
101	Acoustic cloaking by extraordinary sound transmission. Journal of Applied Physics, 2015, 117, .	2.5	17
102	Renormalized phonons in nonlinear lattices: A variational approach. Physical Review E, 2015, 91, 042910.	2.1	19
103	Ultracompact Interference Phonon Nanocapacitor for Storage and Lasing of Coherent Terahertz Lattice Waves. Physical Review Letters, 2015, 114, 145501.	7.8	51
104	Manipulating Steady Heat Conduction by Sensu-shaped Thermal Metamaterials. Scientific Reports, 2015, 5, 10242.	3.3	65
105	Direction dependent thermal conductivity of monolayer phosphorene: Parameterization of Stillinger-Weber potential and molecular dynamics study. Journal of Applied Physics, 2015, 117, .	2.5	69
106	1D momentum-conserving systems: the conundrum of anomalous versus normal heat transport. New Journal of Physics, 2015, 17, 043064.	2.9	36
107	Effects of lithium insertion on thermal conductivity of silicon nanowires. Applied Physics Letters, 2015, 106, .	3.3	14
108	Significant reduction of graphene thermal conductivity by phononic crystal structure. International Journal of Heat and Mass Transfer, 2015, 91, 428-432.	4.8	79

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109	Preface to Special Topic: Phononics: controlling thermal energy, information carried by phonons and beyond. AIP Advances, 2015, 5, 053101.	1.3	7
110	Temperature dependence of thermal conductivities of coupled rotator lattice and the momentum diffusion in standard map. European Physical Journal B, 2015, 88, 1.	1.5	12
111	Realized Volatility and Absolute Return Volatility: A Comparison Indicating Market Risk. PLoS ONE, 2014, 9, e102940.	2.5	30
112	Preface to Special Topic: Selected Articles from Phononics 2013: The Second International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Optomechanics, 2-7 June 2013, Sharm El-Sheikh, Egypt. AIP Advances, 2014, 4, .	1.3	3
113	Inhomogeneous thermal conductivity enhances thermoelectric cooling. AIP Advances, 2014, 4, .	1.3	10
114	Ballistic thermoelectric transport in structured nanowires. New Journal of Physics, 2014, 16, 065018.	2.9	20
115	Temperature-dependent thermal conductivities of one-dimensional nonlinear Klein-Gordon lattices with a soft on-site potential. Physical Review E, 2014, 90, 062122.	2.1	7
116	Exchange fluctuation theorem for heat transport between multiterminal harmonic systems. Physical Review E, 2014, 89, 052101.	2.1	14
117	Gallium ion implantation greatly reduces thermal conductivity and enhances electronic one of ZnO nanowires. AIP Advances, 2014, 4, .	1.3	8
118	Manipulating chiral microswimmers in a channel. Physical Review E, 2014, 90, 062301.	2.1	57
119	Interfacial thermal resistance and thermal rectification between suspended and encased single layer graphene. Journal of Applied Physics, 2014, 116, .	2.5	51
120	Triggering waves in nonlinear lattices: Quest for anharmonic phonons and corresponding mean-free paths. Physical Review B, 2014, 90, .	3.2	30
121	Coexistence of size-dependent and size-independent thermal conductivities in phosphorene. Physical Review B, 2014, 90, .	3.2	203
122	Systemic risk in dynamical networks with stochastic failure criterion. Europhysics Letters, 2014, 106, 68003.	2.0	12
123	Full Control and Manipulation of Heat Signatures: Cloaking, Camouflage and Thermal Metamaterials. Advanced Materials, 2014, 26, 1731-1734.	21.0	362
124	Extreme Low Thermal Conductivity in Nanoscale 3D Si Phononic Crystal with Spherical Pores. Nano Letters, 2014, 14, 1734-1738.	9.1	153
125	Length-dependent thermal conductivity in suspended single-layer graphene. Nature Communications, 2014, 5, 3689.	12.8	735
126	Anomalous Heat Diffusion. Physical Review Letters, 2014, 112, 040601.	7.8	116

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127	Experimental Demonstration of a Bilayer Thermal Cloak. Physical Review Letters, 2014, 112, 054302.	7.8	456
128	Thermospin diode effect based on a quantum dot system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3638-3641.	2.1	4
129	Profiling Nanowire Thermal Resistance with a Spatial Resolution of Nanometers. Nano Letters, 2014, 14, 806-812.	9.1	64
130	Control of surface morphology and crystal structure of silicon nanowires and their coherent phonon transport characteristics. Acta Materialia, 2014, 64, 62-71.	7.9	11
131	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. Scientific Reports, 2014, 4, 6257.	3.3	81
132	Low thermal conductivity in ultrathin carbon nanotube (2, 1). Scientific Reports, 2014, 4, 4917.	3.3	34
133	Wave-packet rectification in nonlinear electronic systems: A tunable Aharonov-Bohm diode. Scientific Reports, 2014, 4, 4566.	3.3	6
134	Theoretical realization of an ultra-efficient thermal-energy harvesting cell made of natural materials. Energy and Environmental Science, 2013, 6, 3537.	30.8	121
135	Localized vibrational, edges and breathing modes of graphene nanoribbons with topological line defects. European Physical Journal B, 2013, 86, 1.	1.5	1
136	Validity of Fourier's law in one-dimensional momentum-conserving lattices with asymmetric interparticle interactions. Physical Review E, 2013, 88, 052112.	2.1	61
137	Cumulants of heat transfer across nonlinear quantum systems. European Physical Journal B, 2013, 86, 1.	1.5	8
138	Substrate coupling suppresses size dependence of thermal conductivity in supported graphene. Nanoscale, 2013, 5, 532-536.	5.6	189
139	Thermal transport across metalâ€“insulator interface via electronâ€“phonon interaction. Journal of Physics Condensed Matter, 2013, 25, 445801.	1.8	23
140	Classical heat transport in anharmonic molecular junctions: Exact solutions. Physical Review E, 2013, 87, 022122.	2.1	10
141	Reduction of Thermal Conductivity by Nanoscale 3D Phononic Crystal. Scientific Reports, 2013, 3, 1143.	3.3	44
142	Suppressing Thermal Conductivity of Suspended Triâ€layer Graphene by Gold Deposition. Advanced Materials, 2013, 25, 6884-6888.	21.0	62
143	Topological magnon insulator in insulating ferromagnet. Physical Review B, 2013, 87, .	3.2	269
144	Growth Versus Government Management Improvement During Economic Downturn. Scientific Reports, 2013, 3, 1612.	3.3	2

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145	Nonlinearity enhanced interfacial thermal conductance and rectification. Europhysics Letters, 2013, 103, 64002.	2.0	26
146	Homogeneous Thermal Cloak with Constant Conductivity and Tunable Heat Localization. Scientific Reports, 2013, 3, 1593.	3.3	190
147	Controlling self-sustained spiking activity by adding or removing one network link. Europhysics Letters, 2013, 102, 50002.	2.0	11
148	Scaling of temperature-dependent thermal conductivities for one-dimensional nonlinear lattices. Physical Review E, 2013, 87, 042125.	2.1	20
149	Redirection of sound waves using acoustic metasurface. Applied Physics Letters, 2013, 103, .	3.3	136
150	Manipulating Acoustic Wavefront by Inhomogeneous Impedance and Steerable Extraordinary Reflection. Scientific Reports, 2013, 3, 2537.	3.3	145
151	Inverted Expression Profiles of Sex-Biased Genes in Response to Toxicant Perturbations and Diseases. PLoS ONE, 2013, 8, e56668.	2.5	5
152	Reverse engineering of complex dynamical networks in the presence of time-delayed interactions based on noisy time series. Chaos, 2012, 22, 033131.	2.5	15
153	Full-counting statistics of heat transport in harmonic junctions: Transient, steady states, and fluctuation theorems. Physical Review E, 2012, 85, 051142.	2.1	46
154	Spectral analysis of gene co-expression network of Zebrafish. Europhysics Letters, 2012, 99, 48004.	2.0	14
155	High thermoelectric figure of merit in silicon-germanium superlattice structured nanowires. Applied Physics Letters, 2012, 101, 233114.	3.3	33
156	Enhancing mammalian hearing by a balancing between spontaneous otoacoustic emissions and spatial coupling. Europhysics Letters, 2012, 98, 20005.	2.0	2
157	Changes in Cross-Correlations as an Indicator for Systemic Risk. Scientific Reports, 2012, 2, 888.	3.3	84
158	Impacts of Atomistic Coating on Thermal Conductivity of Germanium Nanowires. Nano Letters, 2012, 12, 2826-2832.	9.1	96
159	Metabolic network analysis revealed distinct routes of deletion effects between essential and non-essential genes. Molecular BioSystems, 2012, 8, 1179.	2.9	5
160	Quantum Hyperdiffusion in One-Dimensional Tight-Binding Lattices. Physical Review Letters, 2012, 108, 070603.	7.8	32
161	Thermoelectric properties of one-dimensional graphene antidot arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2425-2429.	2.1	48
162	Linking agent-based models and stochastic models of financial markets. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8388-8393.	7.1	127

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163	Logarithmic divergent thermal conductivity in two-dimensional nonlinear lattices. Physical Review E, 2012, 86, 040101.	2.1	63
164	Anomalous heat conduction and anomalous diffusion in low dimensional nanoscale systems. European Physical Journal B, 2012, 85, 1.	1.5	106
165	Thermal transport in nanostructures. AIP Advances, 2012, 2, .	1.3	138
166	Thermal contact resistance across nanoscale silicon dioxide and silicon interface. Journal of Applied Physics, 2012, 112, .	2.5	108
167	Thermoelectric transport with electron-phonon coupling and electron-electron interaction in molecular junctions. Physical Review B, 2012, 85, .	3.2	69
168	Thermal conductivities of one-dimensional anharmonic/nonlinear lattices: renormalized phonons and effective phonon theory. AIP Advances, 2012, 2, .	1.3	25
169	How does folding modulate thermal conductivity of graphene?. Applied Physics Letters, 2012, 100, 093107.	3.3	82
170	Diameterâ€Dependent Thermal Transport in Individual ZnO Nanowires and its Correlation with Surface Coating and Defects. Small, 2012, 8, 738-745.	10.0	54
171	Controlling Complex Networks: How Much Energy Is Needed?. Physical Review Letters, 2012, 108, 218703.	7.8	317
172	Geometric Heat Flux for Classical Thermal Transport in Interacting Open Systems. Physical Review Letters, 2012, 108, 210603.	7.8	30
173	Colloquium: Phononics: Manipulating heat flow with electronic analogs and beyond. Reviews of Modern Physics, 2012, 84, 1045-1066.	45.6	1,106
174	Heat current limiter and constant heat current source. Physical Review E, 2012, 85, 061112.	2.1	18
175	Thermoelectric figure of merit in Ga-doped [0001] ZnO nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 978-981.	2.1	39
176	Uncovering evolutionary ages of nodes in complex networks. European Physical Journal B, 2012, 85, 1.	1.5	9
177	Quantum transport of double quantum dots coupled to an oscillator in arbitrary strong coupling regime. European Physical Journal B, 2012, 85, 1.	1.5	13
178	Toxicogenomic Analysis Suggests Chemical-Induced Sexual Dimorphism in the Expression of Metabolic Genes in Zebrafish Liver. PLoS ONE, 2012, 7, e51971.	2.5	4
179	A nonequilibrium Greenâ€™s function study of thermoelectric properties in single-walled carbon nanotubes. Journal of Applied Physics, 2011, 109, .	2.5	102
180	A universal gauge for thermal conductivity of silicon nanowires with different cross sectional geometries. Journal of Chemical Physics, 2011, 135, 204705.	3.0	49

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181	Thermal Transport in Suspended and Supported Few-Layer Graphene. Nano Letters, 2011, 11, 113-118.	9.1	246
182	Anomalous thermal transport in disordered harmonic chains and carbon nanotubes. Physical Review B, 2011, 83, .	3.2	18
183	Interfacial thermal transport in atomic junctions. Physical Review B, 2011, 83, .	3.2	90
184	Thermal conductivity and thermal rectification in unzipped carbon nanotubes. Journal of Physics Condensed Matter, 2011, 23, 215301.	1.8	23
185	The phonon Hall effect: theory and application. Journal of Physics Condensed Matter, 2011, 23, 305402.	1.8	38
186	Phonon Hall effect in ionic crystals in the presence of static magnetic field. European Physical Journal B, 2011, 81, 197-202.	1.5	15
187	Heat generation and transport due to time-dependent forces. Physical Review E, 2011, 84, 041115.	2.1	9
188	An Electrically Tuned Solidâ€State Thermal Memory Based on Metalâ€“Insulator Transition of Singleâ€Crystalline VO₂ Nanobeams. Advanced Functional Materials, 2011, 21, 1602-1607.	14.9	133
189	Spectral properties of directed random networks with modular structure. Physical Review E, 2011, 84, 046107.	2.1	24
190	Multiresonance of energy transport and absence of heat pump in a force-driven lattice. Physical Review E, 2011, 84, 031122.	2.1	14
191	Thermal diode from two-dimensional asymmetrical Ising lattices. Physical Review E, 2011, 83, 061128.	2.1	12
192	Wave packet dynamics in one-dimensional linear and nonlinear generalized Fibonacci lattices. Physical Review E, 2011, 83, 056205.	2.1	12
193	Phonon coherent resonance and its effect on thermal transport in core-shell nanowires. Journal of Chemical Physics, 2011, 135, 104508.	3.0	94
194	Simulating EGFR-ERK Signaling Control by Scaffold Proteins KSR and MP1 Reveals Differential Ligand-Sensitivity Co-Regulated by Cbl-CIN85 and Endophilin. PLoS ONE, 2011, 6, e22933.	2.5	9
195	Existence of Inverted Profile in Chemically Responsive Molecular Pathways in the Zebrafish Liver. PLoS ONE, 2011, 6, e27819.	2.5	11
196	Violation of Fourier's law and anomalous heat diffusion in silicon nanowires. Nano Today, 2010, 5, 85-90.	11.9	222
197	How to improve the accuracy of equilibrium molecular dynamics for computation of thermal conductivity?. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2392-2396.	2.1	70
198	Now you hear me, now you don't. Nature Materials, 2010, 9, 962-963.	27.5	17

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199	Phonon interference at self-assembled monolayer interfaces: Molecular dynamics simulations. Physical Review B, 2010, 81, .	3.2	79
200	Noise Bridges Dynamical Correlation and Topology in Coupled Oscillator Networks. Physical Review Letters, 2010, 104, 058701.	7.8	159
201	Large thermoelectric figure of merit in Si1â^'xGex nanowires. Applied Physics Letters, 2010, 96, .	3.3	63
202	Comment on â€œCoherent Ratchets in Driven Bose-Einstein Condensatesâ€• Physical Review Letters, 2010, 104, 228901; author reply 228902.	7.8	7
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