

Baowen Li

List of Publications by Year in descending order

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356
papers

23,809
citations

6606

79
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9579

142
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360
all docs

360
docs citations

360
times ranked

12931
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Colloquium</i>: Phononics: Manipulating heat flow with electronic analogs and beyond. Reviews of Modern Physics, 2012, 84, 1045-1066.	16.4	1,106
2	Thermal Diode: Rectification of Heat Flux. Physical Review Letters, 2004, 93, 184301.	2.9	930
3	Length-dependent thermal conductivity in suspended single-layer graphene. Nature Communications, 2014, 5, 3689.	5.8	735
4	Thermal Logic Gates: Computation with Phonons. Physical Review Letters, 2007, 99, 177208.	2.9	542
5	Negative differential thermal resistance and thermal transistor. Applied Physics Letters, 2006, 88, 143501.	1.5	525
6	Experimental Demonstration of a Bilayer Thermal Cloak. Physical Review Letters, 2014, 112, 054302.	2.9	456
7	Thermal Conductivity of Polymers and Their Nanocomposites. Advanced Materials, 2018, 30, e1705544.	11.1	442
8	Full Control and Manipulation of Heat Signatures: Cloaking, Camouflage and Thermal Metamaterials. Advanced Materials, 2014, 26, 1731-1734.	11.1	362
9	Interface Thermal Resistance between Dissimilar Anharmonic Lattices. Physical Review Letters, 2005, 95, 104302.	2.9	361
10	Thermal Memory: A Storage of Phononic Information. Physical Review Letters, 2008, 101, 267203.	2.9	357
11	Young's modulus of graphene: A molecular dynamics study. Physical Review B, 2009, 80, .	1.1	348
12	Controlling Complex Networks: How Much Energy Is Needed?. Physical Review Letters, 2012, 108, 218703.	2.9	317
13	Thermal rectification in asymmetric graphene ribbons. Applied Physics Letters, 2009, 95, .	1.5	308
14	Thermal conductivity of nanotubes revisited: Effects of chirality, isotope impurity, tube length, and temperature. Journal of Chemical Physics, 2005, 123, 114714.	1.2	281
15	Heat conduction in one-dimensional chains. Physical Review E, 1998, 57, 2992-2995.	0.8	278
16	Transforming heat transfer with thermal metamaterials and devices. Nature Reviews Materials, 2021, 6, 488-507.	23.3	270
17	Topological magnon insulator in insulating ferromagnet. Physical Review B, 2013, 87, .	1.1	269
18	Anomalous Heat Conduction and Anomalous Diffusion in One-Dimensional Systems. Physical Review Letters, 2003, 91, 044301.	2.9	250

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19	Carbon nanocone: A promising thermal rectifier. Applied Physics Letters, 2008, 93, .	1.5	247
20	Thermal Transport in Suspended and Supported Few-Layer Graphene. Nano Letters, 2011, 11, 113-118.	4.5	246
21	Thermal rectification and negative differential thermal resistance in lattices with mass gradient. Physical Review B, 2007, 76, .	1.1	242
22	Topological Nature of the Phonon Hall Effect. Physical Review Letters, 2010, 105, 225901.	2.9	242
23	<i>Colloquium</i>: Phononic thermal properties of two-dimensional materials. Reviews of Modern Physics, 2018, 90, .	16.4	238
24	Thermal rectification in carbon nanotube intramolecular junctions: Molecular dynamics calculations. Physical Review B, 2007, 76, .	1.1	222
25	Violation of Fourier's law and anomalous heat diffusion in silicon nanowires. Nano Today, 2010, 5, 85-90.	6.2	222
26	Ultralow Thermal Conductivity of Isotope-Doped Silicon Nanowires. Nano Letters, 2008, 8, 276-280.	4.5	221
27	Coexistence of size-dependent and size-independent thermal conductivities in phosphorene. Physical Review B, 2014, 90, .	1.1	203
28	Invisible Sensors: Simultaneous Sensing and Camouflaging in Multiphysical Fields. Advanced Materials, 2015, 27, 7752-7758.	11.1	202
29	Homogeneous Thermal Cloak with Constant Conductivity and Tunable Heat Localization. Scientific Reports, 2013, 3, 1593.	1.6	190
30	Substrate coupling suppresses size dependence of thermal conductivity in supported graphene. Nanoscale, 2013, 5, 532-536.	2.8	189
31	Size-dependent thermal conductivity of nanoscale semiconducting systems. Physical Review B, 2006, 73, .	1.1	186
32	Heat conduction in one-dimensional nonintegrable systems. Physical Review E, 2000, 61, 3828-3831.	0.8	181
33	Berry-Phase-Induced Heat Pumping and Its Impact on the Fluctuation Theorem. Physical Review Letters, 2010, 104, 170601.	2.9	179
34	Interfacial thermal resistance: Past, present, and future. Reviews of Modern Physics, 2022, 94, .	16.4	178
35	Remarkable Reduction of Thermal Conductivity in Silicon Nanotubes. Nano Letters, 2010, 10, 3978-3983.	4.5	167
36	Influence of network structure on rumor propagation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 458-463.	0.9	163

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37	Thermal expansion in single-walled carbon nanotubes and graphene: Nonequilibrium Green's function approach. <i>Physical Review B</i> , 2009, 80, .	1.1	160
38	Noise Bridges Dynamical Correlation and Topology in Coupled Oscillator Networks. <i>Physical Review Letters</i> , 2010, 104, 058701.	2.9	159
39	Extreme Low Thermal Conductivity in Nanoscale 3D Si Phononic Crystal with Spherical Pores. <i>Nano Letters</i> , 2014, 14, 1734-1738.	4.5	153
40	Manipulating Acoustic Wavefront by Inhomogeneous Impedance and Steerable Extraordinary Reflection. <i>Scientific Reports</i> , 2013, 3, 2537.	1.6	145
41	Phononics gets hot. <i>Physics World</i> , 2008, 21, 27-29.	0.0	143
42	Impacts of doping on thermal and thermoelectric properties of nanomaterials. <i>Nanoscale</i> , 2010, 2, 1058.	2.8	142
43	Thermal transport in nanostructures. <i>AIP Advances</i> , 2012, 2, .	0.6	138
44	Redirection of sound waves using acoustic metasurface. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	136
45	Layer thickness-dependent phonon properties and thermal conductivity of MoS ₂ . <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	136
46	An Electrically Tuned Solid-State Thermal Memory Based on Metal-Insulator Transition of Single-Crystalline VO ₂ Nanobeams. <i>Advanced Functional Materials</i> , 2011, 21, 1602-1607.	7.8	133
47	Thermal conduction of carbon nanotubes using molecular dynamics. <i>Physical Review B</i> , 2005, 71, .	1.1	131
48	Disorder enhances thermoelectric figure of merit in armchair graphene nanoribbons. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	128
49	Linking agent-based models and stochastic models of financial markets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8388-8393.	3.3	127
50	Isotopic effects on the thermal conductivity of graphene nanoribbons: Localization mechanism. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	125
51	Superior thermal conductivity in suspended bilayer hexagonal boron nitride. <i>Scientific Reports</i> , 2016, 6, 25334.	1.6	124
52	Theoretical realization of an ultra-efficient thermal-energy harvesting cell made of natural materials. <i>Energy and Environmental Science</i> , 2013, 6, 3537.	15.6	121
53	Tunable thermal conductivity of Si _{1-x} Ge _x nanowires. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	120
54	Thermal transport in graphene with defect and doping: Phonon modes analysis. <i>Carbon</i> , 2017, 116, 139-144.	5.4	118

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55	Intriguing Heat Conduction of a Chain with Transverse Motions. <i>Physical Review Letters</i> , 2004, 92, 074302.	2.9	116
56	Anomalous Heat Diffusion. <i>Physical Review Letters</i> , 2014, 112, 040601.	2.9	116
57	Thermal conductance of graphene and dimerite. <i>Physical Review B</i> , 2009, 79, .	1.1	114
58	Randomness-Induced Phonon Localization in Graphene Heat Conduction. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3959-3968.	2.1	110
59	Thermal contact resistance across nanoscale silicon dioxide and silicon interface. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	108
60	Anomalous heat conduction and anomalous diffusion in low dimensional nanoscale systems. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	106
61	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. <i>Small</i> , 2018, 14, e1801346.	5.2	106
62	A nonequilibrium Greenâ€™s function study of thermoelectric properties in single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	102
63	Diffusion and Localization in Chaotic Billiards. <i>Physical Review Letters</i> , 1996, 77, 4744-4747.	2.9	101
64	Impacts of Atomistic Coating on Thermal Conductivity of Germanium Nanowires. <i>Nano Letters</i> , 2012, 12, 2826-2832.	4.5	96
65	Anomalous heat conduction and anomalous diffusion in nonlinear lattices, single walled nanotubes, and billiard gas channels. <i>Chaos</i> , 2005, 15, 015121.	1.0	95
66	Can Disorder Induce a Finite Thermal Conductivity in 1D Lattices?. <i>Physical Review Letters</i> , 2001, 86, 63-66.	2.9	94
67	Nonequilibrium Greenâ€™s function method for phonon-phonon interactions and ballistic-diffusive thermal transport. <i>Physical Review B</i> , 2008, 78, .	1.1	94
68	Phonon coherent resonance and its effect on thermal transport in core-shell nanowires. <i>Journal of Chemical Physics</i> , 2011, 135, 104508.	1.2	94
69	Finite Thermal Conductivity in 1D Models Having Zero Lyapunov Exponents. <i>Physical Review Letters</i> , 2002, 88, 223901.	2.9	92
70	Thermal Transistor: Heat Flux Switching and Modulating. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 054402.	0.7	91
71	Interfacial thermal transport in atomic junctions. <i>Physical Review B</i> , 2011, 83, .	1.1	90
72	Thermal rectification at silicon-amorphous polyethylene interface. <i>Applied Physics Letters</i> , 2008, 92, 211908.	1.5	88

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73	Size dependent thermoelectric properties of silicon nanowires. Applied Physics Letters, 2009, 95, .	1.5	88
74	Molecular Dynamics Simulations of Heat Conduction in Nanostructures: Effect of Heat Bath. Journal of the Physical Society of Japan, 2010, 79, 074604.	0.7	88
75	Full-Parameter Omnidirectional Thermal Metadevices of Anisotropic Geometry. Advanced Materials, 2018, 30, e1804019.	11.1	87
76	Thermal conductivity of penta-graphene from molecular dynamics study. Journal of Chemical Physics, 2015, 143, 154703.	1.2	85
77	Changes in Cross-Correlations as an Indicator for Systemic Risk. Scientific Reports, 2012, 2, 888.	1.6	84
78	A Universal Expression of Band Gap for Silicon Nanowires of Different Cross-Section Geometries. Nano Letters, 2008, 8, 4557-4561.	4.5	83
79	How does folding modulate thermal conductivity of graphene?. Applied Physics Letters, 2012, 100, 093107.	1.5	82
80	Statistical properties of high-lying chaotic eigenstates. Journal of Physics A, 1994, 27, 5509-5523.	1.6	81
81	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. Scientific Reports, 2014, 4, 6257.	1.6	81
82	Phonon thermal conduction in novel 2D materials. Journal of Physics Condensed Matter, 2016, 28, 483001.	0.7	81
83	Phonon interference at self-assembled monolayer interfaces: Molecular dynamics simulations. Physical Review B, 2010, 81, .	1.1	79
84	Significant reduction of graphene thermal conductivity by phononic crystal structure. International Journal of Heat and Mass Transfer, 2015, 91, 428-432.	2.5	79
85	Hexagonal boron nitride: a promising substrate for graphene with high heat dissipation. Nanotechnology, 2017, 28, 225704.	1.3	79
86	Symmetry breaking and self-trapping of a dipolar Bose-Einstein condensate in a double-well potential. Physical Review A, 2009, 79, .	1.0	78
87	Competing for Attention in Social Media under Information Overload Conditions. PLoS ONE, 2015, 10, e0126090.	1.1	78
88	Thermal Interface Conductance Between Aluminum and Silicon by Molecular Dynamics Simulations. Journal of Computational and Theoretical Nanoscience, 2015, 12, 168-174.	0.4	78
89	Quantum Chaos of a Kicked Particle in an Infinite Potential Well. Physical Review Letters, 1999, 82, 4224-4227.	2.9	76
90	Fractal-like tree networks reducing the thermal conductivity. Physical Review E, 2006, 73, 066302.	0.8	73

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91	Fourier Law in the Alternate-Mass Hard-Core Potential Chain. <i>Physical Review Letters</i> , 2004, 92, 254301.	2.9	72
92	Energy Carriers in the Fermi-Pasta-Ulam ² Lattice: Solitons or Phonons?. <i>Physical Review Letters</i> , 2010, 105, 054102.	2.9	72
93	Thermal rectifying effect in two-dimensional anharmonic lattices. <i>Physical Review B</i> , 2006, 74, .	1.1	71
94	Thermal Transport in 2D Semiconductors—Considerations for Device Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1903929.	7.8	71
95	Heat conductivity in linear mixing systems. <i>Physical Review E</i> , 2003, 67, 021204.	0.8	70
96	How to improve the accuracy of equilibrium molecular dynamics for computation of thermal conductivity?. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2392-2396.	0.9	70
97	Thermal conductivity of suspended few-layer MoS ₂ . <i>Nanoscale</i> , 2018, 10, 2727-2734.	2.8	70
98	Energy transport between two attractors connected by a Fermi-Pasta-Ulam chain. <i>Journal of Physics A</i> , 1998, 31, 7719-7728.	1.6	69
99	Thermoelectric transport with electron-phonon coupling and electron-electron interaction in molecular junctions. <i>Physical Review B</i> , 2012, 85, .	1.1	69
100	Direction dependent thermal conductivity of monolayer phosphorene: Parameterization of Stillinger-Weber potential and molecular dynamics study. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	69
101	Manipulating Steady Heat Conduction by Sensu-shaped Thermal Metamaterials. <i>Scientific Reports</i> , 2015, 5, 10242.	1.6	65
102	Engineering the thermal conductivity along an individual silicon nanowire by selective helium ion irradiation. <i>Nature Communications</i> , 2017, 8, 15919.	5.8	65
103	Ratcheting heat flux against a thermal bias. <i>Europhysics Letters</i> , 2008, 84, 40009.	0.7	64
104	Profiling Nanowire Thermal Resistance with a Spatial Resolution of Nanometers. <i>Nano Letters</i> , 2014, 14, 806-812.	4.5	64
105	Thermoelectric performance of silicon nanowires. <i>Applied Physics Letters</i> , 2009, 94, 213108.	1.5	63
106	Large thermoelectric figure of merit in Si _{1-x} Ge _x nanowires. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	63
107	Logarithmic divergent thermal conductivity in two-dimensional nonlinear lattices. <i>Physical Review E</i> , 2012, 86, 040101.	0.8	63
108	Suppressing Thermal Conductivity of Suspended Tri-layer Graphene by Gold Deposition. <i>Advanced Materials</i> , 2013, 25, 6884-6888.	11.1	62

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109	Mode-coupling theory and molecular dynamics simulation for heat conduction in a chain with transverse motions. <i>Physical Review E</i> , 2004, 70, 021204.	0.8	61
110	Validity of Fourier's law in one-dimensional momentum-conserving lattices with asymmetric interparticle interactions. <i>Physical Review E</i> , 2013, 88, 052112.	0.8	61
111	Ballistic thermal rectification in nanoscale three-terminal junctions. <i>Physical Review B</i> , 2010, 81, .	1.1	60
112	Epidemic spreading by objective traveling. <i>Europhysics Letters</i> , 2009, 87, 18005.	0.7	59
113	Thermal rectifiers from deformed carbon nanohorns. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 175211.	0.7	58
114	Anomalous vibrational energy diffusion in carbon nanotubes. <i>Journal of Chemical Physics</i> , 2005, 123, 014705.	1.2	57
115	Reversal of thermal rectification in quantum systems. <i>Physical Review B</i> , 2009, 80, .	1.1	57
116	Manipulating chiral microswimmers in a channel. <i>Physical Review E</i> , 2014, 90, 062301.	0.8	57
117	Effective phonons in anharmonic lattices: Anomalous vs. normal heat conduction. <i>Europhysics Letters</i> , 2006, 75, 49-55.	0.7	56
118	Dynamics of Matter-Wave Solitons in a Ratchet Potential. <i>Physical Review Letters</i> , 2008, 101, 150403.	2.9	55
119	Shuttling heat across one-dimensional homogenous nonlinear lattices with a Brownian heat motor. <i>Physical Review E</i> , 2009, 80, 011125.	0.8	55
120	Diameter-Dependent Thermal Transport in Individual ZnO Nanowires and its Correlation with Surface Coating and Defects. <i>Small</i> , 2012, 8, 738-745.	5.2	54
121	Measuring the thermal conductivity and interfacial thermal resistance of suspended MoS ₂ using electron beam self-heating technique. <i>Science Bulletin</i> , 2018, 63, 452-458.	4.3	54
122	Fidelity for the quantum evolution of a Bose-Einstein condensate. <i>Physical Review A</i> , 2005, 72, .	1.0	52
123	Thermal metamaterials: functions and prospects. <i>National Science Review</i> , 2018, 5, 138-141.	4.6	52
124	Reducing lattice thermal conductivity in schwarzites via engineering the hybridized phonon modes. <i>Carbon</i> , 2018, 139, 289-298.	5.4	52
125	Interfacial thermal resistance and thermal rectification between suspended and encased single layer graphene. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	51
126	Ultracompact Interference Phonon Nanocapacitor for Storage and Lasing of Coherent Terahertz Lattice Waves. <i>Physical Review Letters</i> , 2015, 114, 145501.	2.9	51

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127	A Series Circuit of Thermal Rectifiers: An Effective Way to Enhance Rectification Ratio. <i>Small</i> , 2017, 13, 1602726.	5.2	51
128	Band gaps of lower-order Lamb wave in thin plate with one-dimensional phononic crystal layer: Effect of substrate. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	50
129	Probing the Physical Origin of Anisotropic Thermal Transport in Black Phosphorus Nanoribbons. <i>Advanced Materials</i> , 2018, 30, e1804928.	11.1	50
130	A universal gauge for thermal conductivity of silicon nanowires with different cross sectional geometries. <i>Journal of Chemical Physics</i> , 2011, 135, 204705.	1.2	49
131	Unraveled mechanism in silk engineering: Fast reeling induced silk toughening. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	48
132	Emergence and control of heat current from strict zero thermal bias. <i>Physical Review E</i> , 2010, 81, 021111.	0.8	48
133	Thermoelectric properties of one-dimensional graphene antidot arrays. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2425-2429.	0.9	48
134	Ultralow Thermal Conductivity of Single-Crystalline Porous Silicon Nanowires. <i>Advanced Functional Materials</i> , 2017, 27, 1702824.	7.8	47
135	Wave transmission, phonon localization, and heat conduction of a one-dimensional Frenkel-Kontorova chain. <i>Physical Review B</i> , 1999, 59, 8639-8645.	1.1	46
136	Full-counting statistics of heat transport in harmonic junctions: Transient, steady states, and fluctuation theorems. <i>Physical Review E</i> , 2012, 85, 051142.	0.8	46
137	Thermal conduction across a boron nitride and SiO ₂ interface. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 104002.	1.3	46
138	Edge states induce boundary temperature jump in molecular dynamics simulation of heat conduction. <i>Physical Review B</i> , 2009, 80, .	1.1	45
139	Reduction of Thermal Conductivity by Nanoscale 3D Phononic Crystal. <i>Scientific Reports</i> , 2013, 3, 1143.	1.6	44
140	Negative Gaussian curvature induces significant suppression of thermal conduction in carbon crystals. <i>Nanoscale</i> , 2017, 9, 14208-14214.	2.8	43
141	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. <i>National Science Review</i> , 2018, 5, 500-506.	4.6	43
142	Thermal rectification in Y-junction carbon nanotube bundle. <i>Carbon</i> , 2018, 140, 673-679.	5.4	42
143	Topology-induced thermal rectification in carbon nanodevice. <i>Europhysics Letters</i> , 2010, 89, 46005.	0.7	41
144	Temperature dependence of thermal conductivity in 1D nonlinear lattices. <i>Europhysics Letters</i> , 2007, 78, 34001.	0.7	40

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145	Stability of quantum motion: Beyond Fermi-golden-rule and Lyapunov decay. <i>Physical Review E</i> , 2004, 69, 025201.	0.8	39
146	Thermoelectric figure of merit in Ga-doped [0001] ZnO nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 978-981.	0.9	39
147	Thermal management in MoS2 based integrated device using near-field radiation. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	39
148	Nonadiabatic Geometric Phase and Hannay Angle: A Squeezed State Approach. <i>Physical Review Letters</i> , 1998, 81, 1749-1753.	2.9	38
149	Electronic transport in hybrid mesoscopic structures: A nonequilibrium Green function approach. <i>Physical Review B</i> , 2003, 68, .	1.1	38
150	The phonon Hall effect: theory and application. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 305402.	0.7	38
151	Random matrix analysis of localization properties of gene coexpression network. <i>Physical Review E</i> , 2010, 81, 046118.	0.8	37
152	1D momentum-conserving systems: the conundrum of anomalous versus normal heat transport. <i>New Journal of Physics</i> , 2015, 17, 043064.	1.2	36
153	Vibrational spectra and thermal rectification in three-dimensional anharmonic lattices. <i>Physical Review B</i> , 2007, 75, .	1.1	34
154	Propagation of Lamb waves in one-dimensional quasiperiodic composite thin plates: A split of phonon band gap. <i>Applied Physics Letters</i> , 2007, 90, 111908.	1.5	34
155	Elastic and nonlinear stiffness of graphene: A simple approach. <i>Physical Review B</i> , 2010, 81, .	1.1	34
156	Low thermal conductivity in ultrathin carbon nanotube (2, 1). <i>Scientific Reports</i> , 2014, 4, 4917.	1.6	34
157	Control of heat transport in quantum spin systems. <i>Physical Review B</i> , 2009, 79, .	1.1	33
158	High thermoelectric figure of merit in silicon-germanium superlattice structured nanowires. <i>Applied Physics Letters</i> , 2012, 101, 233114.	1.5	33
159	A Ubiquitous Thermal Conductivity Formula for Liquids, Polymer Glass, and Amorphous Solids*. <i>Chinese Physics Letters</i> , 2020, 37, 104401.	1.3	33
160	Quantum Hyperdiffusion in One-Dimensional Tight-Binding Lattices. <i>Physical Review Letters</i> , 2012, 108, 070603.	2.9	32
161	Boosting thermoelectric efficiency using time-dependent control. <i>Scientific Reports</i> , 2015, 5, 14870.	1.6	32
162	Manipulating the temperature dependence of the thermal conductivity of graphene phononic crystal. <i>Nanotechnology</i> , 2016, 27, 265702.	1.3	32

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163	Simulation of the regulation of EGFR endocytosis and EGFR-ERK signaling by endophilin-mediated RhoA-EGFR crosstalk. FEBS Letters, 2008, 582, 2283-2290.	1.3	31
164	Energy transfer in the nonequilibrium spin-boson model: From weak to strong coupling. Physical Review E, 2017, 96, 012135.	0.8	31
165	Crossover of quantum Loschmidt echo from golden-rule decay to perturbation-independent decay. Physical Review E, 2002, 66, 056208.	0.8	30
166	Size-Dependent Formation Enthalpy of Nanocompounds. Journal of Physical Chemistry B, 2005, 109, 16081-16083.	1.2	30
167	Superlens from metal-dielectric composites of nonspherical particles. Physical Review B, 2007, 76, .	1.1	30
168	Geometric Heat Flux for Classical Thermal Transport in Interacting Open Systems. Physical Review Letters, 2012, 108, 210603.	2.9	30
169	Realized Volatility and Absolute Return Volatility: A Comparison Indicating Market Risk. PLoS ONE, 2014, 9, e102940.	1.1	30
170	Triggering waves in nonlinear lattices: Quest for anharmonic phonons and corresponding mean-free paths. Physical Review B, 2014, 90, .	1.1	30
171	Separating the regular and irregular energy levels and their statistics in a Hamiltonian system with mixed classical dynamics. Journal of Physics A, 1995, 28, 4843-4857.	1.6	29
172	Uniform semiclassical approach to fidelity decay in the deep Lyapunov regime. Physical Review E, 2005, 71, 037202.	0.8	29
173	Heat conduction in simple networks: The effect of interchain coupling. Physical Review E, 2007, 76, 051118.	0.8	29
174	Simulation of crosstalk between small GTPase RhoA and EGFR-ERK signaling pathway via MEKK1. Bioinformatics, 2009, 25, 358-364.	1.8	29
175	Diffusion of eccentric microswimmers. Soft Matter, 2016, 12, 2017-2024.	1.2	29
176	Localizations on complex networks. Physical Review E, 2008, 77, 066113.	0.8	28
177	Effect of Interfacial Thermal Resistance in a Thermal Cloak. Physical Review Applied, 2020, 13, .	1.5	28
178	Geometry of high-lying eigenfunctions in a plane billiard system having mixed-type classical dynamics. Journal of Physics A, 1995, 28, 2799-2818.	1.6	27
179	Entanglement-induced decoherence and energy eigenstates. Physical Review A, 2008, 77, .	1.0	27
180	Nanoscale Graphene Disk: A Natural Functionally Graded Material-How is Fourier's Law Violated along Radius Direction of 2D Disk. Scientific Reports, 2015, 5, 14878.	1.6	27

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181	Uniform semiclassical approach to fidelity decay: From weak to strong perturbation. <i>Physical Review E</i> , 2005, 71, 066203.	0.8	26
182	Ratchet Effect and the Transporting Islands in the Chaotic Sea. <i>Physical Review Letters</i> , 2007, 99, 244101.	2.9	26
183	Nonlinearity enhanced interfacial thermal conductance and rectification. <i>Europhysics Letters</i> , 2013, 103, 64002.	0.7	26
184	Derivation of Stable Microarray Cancer-Differentiating Signatures Using Consensus Scoring of Multiple Random Sampling and Gene-Ranking Consistency Evaluation. <i>Cancer Research</i> , 2007, 67, 9996-10003.	0.4	25
185	Current behavior of a quantum Hamiltonian ratchet in resonance. <i>Physical Review E</i> , 2007, 75, 011102.	0.8	25
186	Parameter-dependent thermal conductivity of one-dimensional ϕ^4 lattice. <i>Physical Review E</i> , 2007, 76, 011108.	0.8	25
187	Steering Bose-Einstein Condensates despite Time Symmetry. <i>Physical Review Letters</i> , 2009, 102, 130604.	2.9	25
188	Phonon Hall effect in four-terminal nano-junctions. <i>New Journal of Physics</i> , 2009, 11, 113038.	1.2	25
189	Thermal conductivities of one-dimensional anharmonic/nonlinear lattices: renormalized phonons and effective phonon theory. <i>AIP Advances</i> , 2012, 2, .	0.6	25
190	Spectral properties of directed random networks with modular structure. <i>Physical Review E</i> , 2011, 84, 046107.	0.8	24
191	Reciprocity of thermal diffusion in time-modulated systems. <i>Nature Communications</i> , 2022, 13, 167.	5.8	24
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