Baowen Li

List of Publications by Citations

349 papers	19,209 citations	72 h-index	127 g-index
360 ext. papers	21,526 ext. citations	5.1 avg, IF	7.21 L-index

#	Paper	IF	Citations
349	Colloquium: Phononics: Manipulating heat flow with electronic analogs and beyond. *Reviews of Modern Physics*, **2012**, 84, 1045-1066	40.5	882
348	Thermal diode: rectification of heat flux. *Physical Review Letters*, **2004**, 93, 184301	7.4	796
347	Length-dependent thermal conductivity in suspended single-layer graphene. *Nature Communications*, **2014**, 5, 3689	17.4	603
346	Thermal logic gates: computation with phonons. *Physical Review Letters*, **2007**, 99, 177208	7.4	457
345	Negative differential thermal resistance and thermal transistor. *Applied Physics Letters*, **2006**, 88, 143501	3.4	452
344	Experimental demonstration of a bilayer thermal cloak. *Physical Review Letters*, **2014**, 112, 054302	7.4	362
343	Thermal memory: a storage of phononic information. *Physical Review Letters*, **2008**, 101, 267203	7.4	301
342	Interface thermal resistance between dissimilar anharmonic lattices. *Physical Review Letters*, **2005**, 95, 104302	7.4	301
341	Young□ modulus of graphene: A molecular dynamics study. *Physical Review B*, **2009**, 80,	3.3	292
340	Thermal rectification in asymmetric graphene ribbons. *Applied Physics Letters*, **2009**, 95, 033107	3.4	273
339	Thermal Conductivity of Polymers and Their Nanocomposites. *Advanced Materials*, **2018**, 30, e1705544	24	266
338	Full control and manipulation of heat signatures: cloaking, camouflage and thermal metamaterials. *Advanced Materials*, **2014**, 26, 1731-4	24	262
337	Thermal conductivity of nanotubes revisited: effects of chirality, isotope impurity, tube length, and temperature. *Journal of Chemical Physics*, **2005**, 123, 114714	3.9	256
336	Heat conduction in one-dimensional chains. *Physical Review E*, **1998**, 57, 2992-2995	2.4	254
335	Controlling complex networks: how much energy is needed?. *Physical Review Letters*, **2012**, 108, 218703	7.4	249
334	Carbon nanocone: A promising thermal rectifier. *Applied Physics Letters*, **2008**, 93, 243111	3.4	218
333	Thermal rectification and negative differential thermal resistance in lattices with mass gradient. *Physical Review B*, **2007**, 76,	3.3	215

332	Anomalous heat conduction and anomalous diffusion in one-dimensional systems. *Physical Review Letters*, **2003**, 91, 044301	7.4	215
331	Thermal transport in suspended and supported few-layer graphene. *Nano Letters*, **2011**, 11, 113-8	11.5	214
330	Thermal rectification in carbon nanotube intramolecular junctions: Molecular dynamics calculations. *Physical Review B*, **2007**, 76,	3.3	203
329	Ultralow thermal conductivity of isotope-doped silicon nanowires. *Nano Letters*, **2008**, 8, 276-80	11.5	197
328	Topological magnon insulator in insulating ferromagnet. *Physical Review B*, **2013**, 87,	3.3	195
327	Violation of Fourier's law and anomalous heat diffusion in silicon nanowires. *Nano Today*, **2010**, 5, 85-90	17.9	191
326	Heat conduction in one-dimensional nonintegrable systems. *Physical Review E*, **2000**, 61, 3828-31	2.4	170
325	Homogeneous thermal cloak with constant conductivity and tunable heat localization. *Scientific Reports*, **2013**, 3, 1593	4.9	161
324	Coexistence of size-dependent and size-independent thermal conductivities in phosphorene. *Physical Review B*, **2014**, 90,	3.3	159
323	Substrate coupling suppresses size dependence of thermal conductivity in supported graphene. *Nanoscale*, **2013**, 5, 532-6	7.7	153
322	Berry-phase-induced heat pumping and its impact on the fluctuation theorem. *Physical Review Letters*, **2010**, 104, 170601	7.4	152
321	Size-dependent thermal conductivity of nanoscale semiconducting systems. *Physical Review B*, **2006**, 73,	3.3	149
320	Topological nature of the phonon Hall effect. *Physical Review Letters*, **2010**, 105, 225901	7.4	147
319	Invisible Sensors: Simultaneous Sensing and Camouflaging in Multiphysical Fields. *Advanced Materials*, **2015**, 27, 7752-8	24	145
318	Thermal expansion in single-walled carbon nanotubes and graphene: Nonequilibrium Green function approach. *Physical Review B*, **2009**, 80,	3.3	145
317	Colloquium: Phononic thermal properties of two-dimensional materials. *Reviews of Modern Physics*, **2018**, 90,	40.5	141
316	Remarkable reduction of thermal conductivity in silicon nanotubes. *Nano Letters*, **2010**, 10, 3978-83	11.5	140
315	Noise bridges dynamical correlation and topology in coupled oscillator networks. *Physical Review Letters*, **2010**, 104, 058701	7.4	136

314	Influence of network structure on rumor propagation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2007**, 368, 458-463	2.3	133
313	Extreme low thermal conductivity in nanoscale 3D Si phononic crystal with spherical pores. *Nano Letters*, **2014**, 14, 1734-8	11.5	128
312	Phononics gets hot. *Physics World*, **2008**, 21, 27-29	0.5	125
311	Thermal conduction of carbon nanotubes using molecular dynamics. *Physical Review B*, **2005**, 71,	3.3	119
310	Impacts of doping on thermal and thermoelectric properties of nanomaterials. *Nanoscale*, **2010**, 2, 1058-68	7.7	118
309	Manipulating acoustic wavefront by inhomogeneous impedance and steerable extraordinary reflection. *Scientific Reports*, **2013**, 3, 2537	4.9	117
308	An Electrically Tuned Solid-State Thermal Memory Based on Metal□Insulator Transition of Single-Crystalline VO2 Nanobeams. *Advanced Functional Materials*, **2011**, 21, 1602-1607	15.6	114
307	Disorder enhances thermoelectric figure of merit in armchair graphane nanoribbons. *Applied Physics Letters*, **2009**, 95, 192114	3.4	114
306	Thermal transport in nanostructures. *AIP Advances*, **2012**, 2, 041410	1.5	113
305	Isotopic effects on the thermal conductivity of graphene nanoribbons: Localization mechanism. *Journal of Applied Physics*, **2010**, 107, 054314	2.5	112
304	Redirection of sound waves using acoustic metasurface. *Applied Physics Letters*, **2013**, 103, 151604	3.4	111
303	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, 8388-93	11.5	110
302	Intriguing heat conduction of a chain with transverse motions. *Physical Review Letters*, **2004**, 92, 074302	7.4	109
301	Thermal conductance of graphene and dimerite. *Physical Review B*, **2009**, 79,	3.3	108
300	Tunable thermal conductivity of Si1□Gex nanowires. *Applied Physics Letters*, **2009**, 95, 073117	3.4	103
299	Theoretical realization of an ultra-efficient thermal-energy harvesting cell made of natural materials. *Energy and Environmental Science*, **2013**, 6, 3537	35.4	99
298	Diffusion and Localization in Chaotic Billiards. *Physical Review Letters*, **1996**, 77, 4744-4747	7.4	94
297	Anomalous heat conduction and anomalous diffusion in low dimensional nanoscale systems. *European Physical Journal B*, **2012**, 85, 1	1.2	93

296	Anomalous heat diffusion. *Physical Review Letters*, **2014**, 112, 040601	7.4	92
295	A nonequilibrium Green's function study of thermoelectric properties in single-walled carbon nanotubes. *Journal of Applied Physics*, **2011**, 109, 014326	2.5	89
294	Anomalous heat conduction and anomalous diffusion in nonlinear lattices, single walled nanotubes, and billiard gas channels. *Chaos*, **2005**, 15, 15121	3.3	89
293	Layer thickness-dependent phonon properties and thermal conductivity of MoS2. *Journal of Applied Physics*, **2016**, 119, 085106	2.5	89
292	Impacts of atomistic coating on thermal conductivity of germanium nanowires. *Nano Letters*, **2012**, 12, 2826-32	11.5	88
291	Superior thermal conductivity in suspended bilayer hexagonal boron nitride. *Scientific Reports*, **2016**, 6, 25334	4.9	87
290	Finite thermal conductivity in 1D models having zero Lyapunov exponents. *Physical Review Letters*, **2002**, 88, 223901	7.4	87
289	Thermal transport in graphene with defect and doping: Phonon modes analysis. *Carbon*, **2017**, 116, 139-144	10.4	86
288	Phonon coherent resonance and its effect on thermal transport in core-shell nanowires. *Journal of Chemical Physics*, **2011**, 135, 104508	3.9	86
287	Thermal rectification at silicon-amorphous polyethylene interface. *Applied Physics Letters*, **2008**, 92, 211908	3.4	85
286	Thermal contact resistance across nanoscale silicon dioxide and silicon interface. *Journal of Applied Physics*, **2012**, 112, 064319	2.5	84
285	Can Disorder Induce a Finite Thermal Conductivity in 1D Lattices?. *Physical Review Letters*, **2001**, 86, 63-66	7.4	84
284	Size dependent thermoelectric properties of silicon nanowires. *Applied Physics Letters*, **2009**, 95, 063102	3.4	83
283	Interfacial thermal transport in atomic junctions. *Physical Review B*, **2011**, 83,	3.3	80
282	Nonequilibrium Green's function method for phonon-phonon interactions and ballistic-diffusive thermal transport. *Physical Review B*, **2008**, 78,	3.3	79
281	A universal expression of band gap for silicon nanowires of different cross-section geometries. *Nano Letters*, **2008**, 8, 4557-61	11.5	79
280	Phonon interference at self-assembled monolayer interfaces: Molecular dynamics simulations. *Physical Review B*, **2010**, 81,	3.3	78
279	Randomness-Induced Phonon Localization in Graphene Heat Conduction. *Journal of Physical Chemistry Letters*, **2018**, 9, 3959-3968	6.4	76

278	Thermal Transistor: Heat Flux Switching and Modulating. *Journal of the Physical Society of Japan*, **2008**, 77, 054402	1.5	73
277	How does folding modulate thermal conductivity of graphene?. *Applied Physics Letters*, **2012**, 100, 093107	3.4	72
276	Molecular Dynamics Simulations of Heat Conduction in Nanostructures: Effect of Heat Bath. *Journal of the Physical Society of Japan*, **2010**, 79, 074604	1.5	71
275	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. *Small*, **2018**, 14, e1801346	11	70
274	Quantum Chaos of a Kicked Particle in an Infinite Potential Well. *Physical Review Letters*, **1999**, 82, 4224-4227	7.4	70
273	Symmetry breaking and self-trapping of a dipolar Bose-Einstein condensate in a double-well potential. *Physical Review A*, **2009**, 79,	2.6	69
272	Statistical properties of high-lying chaotic eigenstates. *Journal of Physics A*, **1994**, 27, 5509-5523		69
271	Thermal conductivity of penta-graphene from molecular dynamics study. *Journal of Chemical Physics*, **2015**, 143, 154703	3.9	68
270	Fourier law in the alternate-mass hard-core potential chain. *Physical Review Letters*, **2004**, 92, 254301	7.4	68
269	Transforming heat transfer with thermal metamaterials and devices. *Nature Reviews Materials*, **2021**, 6, 488-507	73.3	68
268	Significant reduction of graphene thermal conductivity by phononic crystal structure. *International Journal of Heat and Mass Transfer*, **2015**, 91, 428-432	4.9	66
267	Changes in cross-correlations as an indicator for systemic risk. *Scientific Reports*, **2012**, 2, 888	4.9	64
266	Energy carriers in the Fermi-Pasta-Ulam lattice: solitons or phonons?. *Physical Review Letters*, **2010**, 105, 054102	7.4	63
265	Heat conductivity in linear mixing systems. *Physical Review E*, **2003**, 67, 021204	2.4	63
264	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. *Scientific Reports*, **2014**, 4, 6257	4.9	62
263	Energy transport between two attractors connected by a Fermi-Pasta-Ulam chain. *Journal of Physics A*, **1998**, 31, 7719-7728		62
262	Full-Parameter Omnidirectional Thermal Metadevices of Anisotropic Geometry. *Advanced Materials* , **2018**, 30, e1804019	24	61
261	Thermal rectifying effect in two-dimensional anharmonic lattices. *Physical Review B*, **2006**, 74,	3.3	60

260	Competing for Attention in Social Media under Information Overload Conditions. *PLoS ONE*, **2015**, 10, e0126090	3.7	59
259	Large thermoelectric figure of merit in Si1−xGex nanowires. *Applied Physics Letters*, **2010**, 96, 173108	3.4	58
258	Validity of Fourier's law in one-dimensional momentum-conserving lattices with asymmetric interparticle interactions. *Physical Review E*, **2013**, 88, 052112	2.4	57
257	Thermoelectric transport with electron-phonon coupling and electron-electron interaction in molecular junctions. *Physical Review B*, **2012**, 85,	3.3	57
256	Thermoelectric performance of silicon nanowires. *Applied Physics Letters*, **2009**, 94, 213108	3.4	57
255	Direction dependent thermal conductivity of monolayer phosphorene: Parameterization of Stillinger-Weber potential and molecular dynamics study. *Journal of Applied Physics*, **2015**, 117, 214308	2.5	56
254	Mode-coupling theory and molecular dynamics simulation for heat conduction in a chain with transverse motions. *Physical Review E*, **2004**, 70, 021204	2.4	56
253	Fractal-like tree networks reducing the thermal conductivity. *Physical Review E*, **2006**, 73, 066302	2.4	55
252	Hexagonal boron nitride: a promising substrate for graphene with high heat dissipation. *Nanotechnology*, **2017**, 28, 225704	3.4	54
251	Thermal Interface Conductance Between Aluminum and Silicon by Molecular Dynamics Simulations. *Journal of Computational and Theoretical Nanoscience*, **2015**, 12, 168-174	0.3	54
250	Ballistic thermal rectification in nanoscale three-terminal junctions. *Physical Review B*, **2010**, 81,	3.3	54
249	Epidemic spreading by objective traveling. *Europhysics Letters*, **2009**, 87, 18005	1.6	54
248	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	2.3	54
247	Thermal rectifiers from deformed carbon nanohorns. *Journal of Physics Condensed Matter*, **2008**, 20, 175211	2.1	54
246	Phonon thermal conduction in novel 2D materials. *Journal of Physics Condensed Matter*, **2016**, 28, 483001	1.8	54
245	Dynamics of matter-wave solitons in a ratchet potential. *Physical Review Letters*, **2008**, 101, 150403	7.4	53
244	Ratcheting heat flux against a thermal bias. *Europhysics Letters*, **2008**, 84, 40009	1.6	52
243	Effective phonons in anharmonic lattices: Anomalous vs. normal heat conduction. *Europhysics Letters*, **2006**, 75, 49-55	1.6	52

242	Logarithmic divergent thermal conductivity in two-dimensional nonlinear lattices. *Physical Review E* , **2012**, 86, 040101	2.4	51
241	Anomalous vibrational energy diffusion in carbon nanotubes. *Journal of Chemical Physics*, **2005**, 123, 014705	3.9	51
240	Fidelity for the quantum evolution of a Bose-Einstein condensate. *Physical Review A*, **2005**, 72,	2.6	51
239	Manipulating Steady Heat Conduction by Sensu-shaped Thermal Metamaterials. *Scientific Reports*, **2015**, 5, 10242	4.9	50
238	Diameter-dependent thermal transport in individual ZnO nanowires and its correlation with surface coating and defects. *Small*, **2012**, 8, 738-45	11	49
237	Reversal of thermal rectification in quantum systems. *Physical Review B*, **2009**, 80,	3.3	49
236	Profiling nanowire thermal resistance with a spatial resolution of nanometers. *Nano Letters*, **2014**, 14, 806-12	11.5	47
235	Thermal conductivity of suspended few-layer MoS. *Nanoscale*, **2018**, 10, 2727-2734	7.7	46
234	Manipulating chiral microswimmers in a channel. *Physical Review E*, **2014**, 90, 062301	2.4	46
233	A universal gauge for thermal conductivity of silicon nanowires with different cross sectional geometries. *Journal of Chemical Physics*, **2011**, 135, 204705	3.9	46
232	Engineering the thermal conductivity along an individual silicon nanowire by selective helium ion irradiation. *Nature Communications*, **2017**, 8, 15919	17.4	45
231	Band gaps of lower-order Lamb wave in thin plate with one-dimensional phononic crystal layer: Effect of substrate. *Applied Physics Letters*, **2008**, 92, 023510	3.4	44
230	Suppressing thermal conductivity of suspended tri-layer graphene by gold deposition. *Advanced Materials*, **2013**, 25, 6884-8	24	43
229	Edge states induce boundary temperature jump in molecular dynamics simulation of heat conduction. *Physical Review B*, **2009**, 80,	3.3	43
228	Unraveled mechanism in silk engineering: Fast reeling induced silk toughening. *Applied Physics Letters*, **2009**, 95, 093703	3.4	43
227	Shuttling heat across one-dimensional homogenous nonlinear lattices with a Brownian heat motor. *Physical Review E*, **2009**, 80, 011125	2.4	43
226	Wave transmission, phonon localization, and heat conduction of a one-dimensional Frenkel-Kontorova chain. *Physical Review B*, **1999**, 59, 8639-8645	3.3	42
225	Interfacial thermal resistance and thermal rectification between suspended and encased single layer graphene. *Journal of Applied Physics*, **2014**, 116, 134303	2.5	41

224	Thermal Transport in 2D Semiconductors□Considerations for Device Applications. *Advanced Functional Materials*, **2020**, 30, 1903929	15.6	41
223	Thermoelectric properties of one-dimensional graphene antidot arrays. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2012**, 376, 2425-2429	2.3	40
222	Full-counting statistics of heat transport in harmonic junctions: transient, steady states, and fluctuation theorems. *Physical Review E*, **2012**, 85, 051142	2.4	40
221	Reduction of thermal conductivity by nanoscale 3D phononic crystal. *Scientific Reports*, **2013**, 3, 1143	4.9	39
220	Emergence and control of heat current from strict zero thermal bias. *Physical Review E*, **2010**, 81, 021111	2.4	39
219	Stability of quantum motion: beyond Fermi-golden-rule and Lyapunov decay. *Physical Review E*, **2004**, 69, 025201	2.4	38
218	Ultracompact interference phonon nanocapacitor for storage and lasing of coherent terahertz lattice waves. *Physical Review Letters*, **2015**, 114, 145501	7.4	37
217	Measuring the thermal conductivity and interfacial thermal resistance of suspended MoS 2 using electron beam self-heating technique. *Science Bulletin*, **2018**, 63, 452-458	10.6	37
216	Topology-induced thermal rectification in carbon nanodevice. *Europhysics Letters*, **2010**, 89, 46005	1.6	37
215	Nonadiabatic Geometric Phase and Hannay Angle: A Squeezed State Approach. *Physical Review Letters*, **1998**, 81, 1749-1753	7.4	37
214	Temperature dependence of thermal conductivity in 1D nonlinear lattices. *Europhysics Letters*, **2007**, 78, 34001	1.6	36
213	A Series Circuit of Thermal Rectifiers: An Effective Way to Enhance Rectification Ratio. *Small*, **2017**, 13, 1602726	11	35
212	Thermoelectric figure of merit in Ga-doped [0001] ZnO nanowires. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2012**, 376, 978-981	2.3	35
211	Ultralow Thermal Conductivity of Single-Crystalline Porous Silicon Nanowires. *Advanced Functional Materials*, **2017**, 27, 1702824	15.6	35
210	Reducing lattice thermal conductivity in schwarzites via engineering the hybridized phonon modes. *Carbon*, **2018**, 139, 289-298	10.4	35
209	1D momentum-conserving systems: the conundrum of anomalous versus normal heat transport. *New Journal of Physics*, **2015**, 17, 043064	2.9	34
208	Thermal metamaterials: functions and prospects. *National Science Review*, **2018**, 5, 138-141	10.8	33
207	Low thermal conductivity in ultrathin carbon nanotube (2, 1). *Scientific Reports*, **2014**, 4, 4917	4.9	32

206	Elastic and nonlinear stiffness of graphene: A simple approach. *Physical Review B*, **2010**, 81,	3.3	32
205	Random matrix analysis of localization properties of gene coexpression network. *Physical Review E*, **2010**, 81, 046118	2.4	32
204	Vibrational spectra and thermal rectification in three-dimensional anharmonic lattices. *Physical Review B*, **2007**, 75,	3.3	31
203	Electronic transport in hybrid mesoscopic structures: A nonequilibrium Green function approach. *Physical Review B*, **2003**, 68,	3.3	31
202	Probing the Physical Origin of Anisotropic Thermal Transport in Black Phosphorus Nanoribbons. *Advanced Materials*, **2018**, 30, e1804928	24	31
201	The phonon Hall effect: theory and application. *Journal of Physics Condensed Matter*, **2011**, 23, 305402	1.8	30
200	Propagation of Lamb waves in one-dimensional quasiperiodic composite thin plates: A split of phonon band gap. *Applied Physics Letters*, **2007**, 90, 111908	3.4	30
199	Crossover of quantum Loschmidt echo from golden-rule decay to perturbation-independent decay. *Physical Review E*, **2002**, 66, 056208	2.4	30
198	Thermal conduction across a boron nitride and SiO2interface. *Journal Physics D: Applied Physics*, **2017**, 50, 104002	3	29
197	Control of heat transport in quantum spin systems. *Physical Review B*, **2009**, 79,	3.3	29
196	High thermoelectric figure of merit in silicon-germanium superlattice structured nanowires. *Applied Physics Letters*, **2012**, 101, 233114	3.4	29
195	Uniform semiclassical approach to fidelity decay in the deep Lyapunov regime. *Physical Review E*, **2005**, 71, 037202	2.4	29
194	Diffusion of eccentric microswimmers. *Soft Matter*, **2016**, 12, 2017-24	3.6	28
193	Simulation of the regulation of EGFR endocytosis and EGFR-ERK signaling by endophilin-mediated RhoA-EGFR crosstalk. *FEBS Letters*, **2008**, 582, 2283-90	3.8	28
192	Superlens from metal-dielectric composites of nonspherical particles. *Physical Review B*, **2007**, 76,	3.3	28
191	Size-dependent formation enthalpy of nanocompounds. *Journal of Physical Chemistry B*, **2005**, 109, 16081-3	3.4	28
190	Thermal management in MoS2 based integrated device using near-field radiation. *Applied Physics Letters*, **2015**, 107, 133108	3.4	27
189	Simulation of crosstalk between small GTPase RhoA and EGFR-ERK signaling pathway via MEKK1. *Bioinformatics*, **2009**, 25, 358-64	7.2	27

188	Boosting thermoelectric efficiency using time-dependent control. *Scientific Reports*, **2015**, 5, 14870	4.9	26
187	Triggering waves in nonlinear lattices: Quest for anharmonic phonons and corresponding mean-free paths. *Physical Review B*, **2014**, 90,	3.3	26
186	Localizations on complex networks. *Physical Review E*, **2008**, 77, 066113	2.4	26
185	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. *National Science Review*, **2018**, 5, 500-506	10.8	25
184	Negative Gaussian curvature induces significant suppression of thermal conduction in carbon crystals. *Nanoscale*, **2017**, 9, 14208-14214	7.7	25
183	Energy transfer in the nonequilibrium spin-boson model: From weak to strong coupling. *Physical Review E*, **2017**, 96, 012135	2.4	25
182	Quantum hyperdiffusion in one-dimensional tight-binding lattices. *Physical Review Letters*, **2012**, 108, 070603	7.4	25
181	Thermal conductivities of one-dimensional anharmonic/nonlinear lattices: renormalized phonons and effective phonon theory. *AIP Advances*, **2012**, 2, 041408	1.5	25
180	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		25
179	Geometry of high-lying eigenfunctions in a plane billiard system having mixed-type classical dynamics. *Journal of Physics A*, **1995**, 28, 2799-2818		25
178	Current behavior of a quantum Hamiltonian ratchet in resonance. *Physical Review E*, **2007**, 75, 011102	2.4	24
177	Uniform semiclassical approach to fidelity decay: from weak to strong perturbation. *Physical Review E*, **2005**, 71, 066203	2.4	24
176	Thermal rectification in Y-junction carbon nanotube bundle. *Carbon*, **2018**, 140, 673-679	10.4	24
175	Manipulating the temperature dependence of the thermal conductivity of graphene phononic crystal. *Nanotechnology*, **2016**, 27, 265702	3.4	23
174	Steering Bose-Einstein condensates despite time symmetry. *Physical Review Letters*, **2009**, 102, 130604	7.4	23
173	Heat conduction in simple networks: the effect of interchain coupling. *Physical Review E*, **2007**, 76, 051118	2.4	23
172	Entanglement-induced decoherence and energy eigenstates. *Physical Review A*, **2008**, 77,	2.6	22
171	Derivation of stable microarray cancer-differentiating signatures using consensus scoring of multiple random sampling and gene-ranking consistency evaluation. *Cancer Research*, **2007**, 67, 9996-10003	10.1	22

170	Parameter-dependent thermal conductivity of one-dimensional phi4 lattice. *Physical Review E*, **2007**, 76, 011108	2.4	22
169	Phonon Hall effect in four-terminal nano-junctions. *New Journal of Physics*, **2009**, 11, 113038	2.9	21
168	Geometric heat flux for classical thermal transport in interacting open systems. *Physical Review Letters*, **2012**, 108, 210603	7.4	20
167	Nonlinearity enhanced interfacial thermal conductance and rectification. *Europhysics Letters*, **2013**, 103, 64002	1.6	20
166	Weak signal transmission in complex networks and its application in detecting connectivity. *Physical Review E*, **2009**, 80, 046102	2.4	20
165	Desynchronization and on-off intermittency in complex networks. *Europhysics Letters*, **2009**, 88, 28001	1.6	20
164	Spectral properties of directed random networks with modular structure. *Physical Review E*, **2011**, 84, 046107	2.4	20
163	Ratchet effect and the transporting islands in the chaotic sea. *Physical Review Letters*, **2007**, 99, 244101	7.4	20
162	Interfacial thermal conductance across metal-insulator/semiconductor interfaces due to surface states. *Physical Review B*, **2016**, 93,	3.3	19
161	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	4.9	19
160	Impacts of size and cross-sectional shape on surface lattice constant and electron effective mass of silicon nanowires. *Applied Physics Letters*, **2009**, 94, 113113	3.4	19
159	Ballistic magnetothermal transport in a Heisenberg spin chain at low temperatures. *Physical Review B*, **2008**, 78,	3.3	19
158	Thermal transport across metal□insulator interface via electron□phonon interaction. *Journal of Physics Condensed Matter*, **2013**, 25, 445801	1.8	18
157	Scaling of temperature-dependent thermal conductivities for one-dimensional nonlinear lattices. *Physical Review E*, **2013**, 87, 042125	2.4	18
156	Thermal conductivity and thermal rectification in unzipped carbon nanotubes. *Journal of Physics Condensed Matter*, **2011**, 23, 215301	1.8	18
155	Stability of quantum motion in regular systems: a uniform semiclassical approach. *Physical Review E*, **2007**, 75, 016201	2.4	18
154	Realized volatility and absolute return volatility: a comparison indicating market risk. *PLoS ONE*, **2014**, 9, e102940	3.7	17
153	Topological effect on thermal conductivity in graphene. *Journal of Applied Physics*, **2010**, 108, 064307	2.5	17

152	Ratchet-induced matter wave transport and soliton collisions in Bose Einstein condensates. *Physica D: Nonlinear Phenomena*, **2009**, 238, 1338-1344	3.3	17
151	Numerical study of scars in a chaotic billiard. *Physical Review E*, **1997**, 55, 5376-5379	2.4	17
150	Li, Zhao, and Hu Reply:. *Physical Review Letters*, **2001**, 87,	7.4	17
149	Statistical analysis of scars in stadium billiard. *Journal of Physics A*, **1998**, 31, 483-504		17
148	Quantum Frenkel-Kontorova model: A squeezed state approach. *Physical Review E*, **1998**, 58, R4068-R4071	2.4	17
147	Renormalized phonons in nonlinear lattices: A variational approach. *Physical Review E*, **2015**, 91, 042910	2.4	16
146	Ballistic thermoelectric transport in structured nanowires. *New Journal of Physics*, **2014**, 16, 065018	2.9	16
145	Anomalous thermal transport in disordered harmonic chains and carbon nanotubes. *Physical Review B*, **2011**, 83,	3.3	16
144	Heat flux distribution and rectification of complex networks. *New Journal of Physics*, **2010**, 12, 023016	2.9	16
143	Size-dependent interface phonon transmission and thermal conductivity of nanolaminates. *Journal of Applied Physics*, **2008**, 103, 084314	2.5	16
142	Nonballistic heat conduction in an integrable random-exchange Ising chain studied with quantum master equations. *Physical Review B*, **2008**, 77,	3.3	16
141	Relevance of chaos in numerical solutions of quantum billiards. *Physical Review E*, **1998**, 57, 4095-4105	2.4	16
140	Cantori and dynamical localization in the Bunimovich stadium. *Physica D: Nonlinear Phenomena*, **1999**, 131, 317-326	3.3	16
139	Detecting Thermal Cloaks via Transient Effects. *Scientific Reports*, **2016**, 6, 32915	4.9	15
138	Heat current limiter and constant heat current source. *Physical Review E*, **2012**, 85, 061112	2.4	15
137	Large negative differential resistance in a molecular junction of carbon nanotube and anthracene. *Journal of Physical Chemistry B*, **2008**, 112, 16891-4	3.4	15
136	INTERFACE THERMAL RESISTANCE BETWEEN FRENKEL-KONTOROVA AND FERMI-PASTA-ULAM LATTICES. *International Journal of Modern Physics B*, **2007**, 21, 4013-4016	1.1	15
135	Interaction-induced quantum ratchet in a Bose-Einstein condensate. *Physical Review A*, **2007**, 76,	2.6	15

134	Squeezed state dynamics of kicked quantum systems. *Physical Review E*, **1998**, 58, 1743-1756	2.4	15
133	Thermoelectric properties of nanoscale three dimensional Si phononic crystals. *International Journal of Heat and Mass Transfer*, **2016**, 99, 102-106	4.9	15
132	Thermoelectric transport in hybrid materials incorporating metallic nanowires in polymer matrix. *Applied Physics Letters*, **2017**, 110, 113102	3.4	14
131	Acoustic cloaking by extraordinary sound transmission. *Journal of Applied Physics*, **2015**, 117, 214507	2.5	14
130	Spectral analysis of gene co-expression network of Zebrafish. *Europhysics Letters*, **2012**, 99, 48004	1.6	14
129	Effect of Interfacial Thermal Resistance in a Thermal Cloak. *Physical Review Applied*, **2020**, 13,	4.3	13
128	Thermal transport in organic/inorganic composites. *Frontiers in Energy*, **2018**, 12, 72-86	2.6	13
127	Thermoelectric transport through a quantum nanoelectromechanical system and its backaction. *Physical Review B*, **2015**, 91,	3.3	13
126	Exchange fluctuation theorem for heat transport between multiterminal harmonic systems. *Physical Review E*, **2014**, 89, 052101	2.4	13
125	Reverse engineering of complex dynamical networks in the presence of time-delayed interactions based on noisy time series. *Chaos*, **2012**, 22, 033131	3.3	13
124	Thermal conductivity of composites with nanoscale inclusions and size-dependent percolation. *Journal of Physics Condensed Matter*, **2008**, 20, 365201	1.8	13
123	Self-affine fractals embedded in spectra of complex networks. *Physical Review E*, **2008**, 77, 045101	2.4	13
122	Wall "thickness" effects on Raman spectrum shift, thermal conductivity, and Young's modulus of single-walled nanotubes. *Journal of Physical Chemistry B*, **2005**, 109, 23823-6	3.4	13
121	Li and Wang Reply:. *Physical Review Letters*, **2004**, 92,	7.4	13
120	Seismic invisibility: elastic wave cloaking via symmetrized transformation media. *New Journal of Physics*, **2018**, 20, 063013	2.9	13
119	Theoretical investigation on thermoelectric properties of Cu-based chalcopyrite compounds. *Physical Review B*, **2017**, 95,	3.3	12
118	Effects of lithium insertion on thermal conductivity of silicon nanowires. *Applied Physics Letters*, **2015**, 106, 173901	3.4	12
117	Tunable phonon nanocapacitor built by carbon schwarzite based host-guest system. *Physical Review B*, **2020**, 101,	3.3	12

116	Quantum transport of double quantum dots coupled to an oscillator in arbitrary strong coupling regime. *European Physical Journal B*, **2012**, 85, 1	1.2	12
115	Universal decay of the classical Loschmidt echo of neutrally stable mixing dynamics. *Physical Review Letters*, **2005**, 94, 114101	7.4	12
114	Quantum Frenkel-Kontorova model. *Physica A: Statistical Mechanics and Its Applications*, **2000**, 288, 81-97	3.3	12
113	Ground-state wave function of the quantum Frenkel-Kontorova model. *Europhysics Letters*, **1999**, 46, 655-660	1.6	12
112	Quantum thermal transport through anharmonic systems: A self-consistent approach. *Physical Review B*, **2016**, 94,	3.3	12
111	Control of surface morphology and crystal structure of silicon nanowires and their coherent phonon transport characteristics. *Acta Materialia*, **2014**, 64, 62-71	8.4	11
110	Hopping processes explain linear rise in temperature of thermal conductivity in thermoelectric clathrates with off-center guest atoms. *Physical Review B*, **2017**, 96,	3.3	11
109	Phonon Hall effect in ionic crystals in the presence of static magnetic field. *European Physical Journal B*, **2011**, 81, 197-202	1.2	11
108	Thermal diode from two-dimensional asymmetrical Ising lattices. *Physical Review E*, **2011**, 83, 061128	2.4	11
107	Conductance oscillation and quantization in monatomic Al wires. *Journal of Physics Condensed Matter*, **2007**, 19, 056010	1.8	11
106	Sensitivity of the eigenfunctions and the level curvature distribution in quantum billiards. *Journal of Physics A*, **1996**, 29, 4387-4405		11
105	Existence of inverted profile in chemically responsive molecular pathways in the zebrafish liver. *PLoS ONE*, **2011**, 6, e27819	3.7	11
104	A Ubiquitous Thermal Conductivity Formula for Liquids, Polymer Glass, and Amorphous Solids. *Chinese Physics Letters*, **2020**, 37, 104401	1.8	11
103	Thickness-Dependent In-Plane Thermal Conductivity and Enhanced Thermoelectric Performance in p-Type ZrTe5 Nanoribbons. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800529	2.5	11
102	Elastic Modulus and Thermal Conductivity of Thiolene/TiO Nanocomposites. *Journal of Physical Chemistry C*, **2017**, 121, 25568-25575	3.8	10
101	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	1.2	10
100	Phonon-glass dynamics in thermoelectric clathrates. *Physical Review B*, **2016**, 93,	3.3	10
99	Classical heat transport in anharmonic molecular junctions: exact solutions. *Physical Review E*, **2013**, 87, 022122	2.4	10

98	Systemic risk in dynamical networks with stochastic failure criterion. *Europhysics Letters*, **2014**, 106, 68003	2.6	10
97	Nonadiabatic geometric phase for the cyclic evolution of a time-dependent Hamiltonian system. *Physical Review A*, **1998**, 58, 3448-3456	2.6	10
96	Role of radiation in heat transfer from nanoparticles to gas media in photothermal measurements. *International Journal of Modern Physics C*, **2019**, 30, 1950024	1.1	9
95	Phonon Renormalization Induced by Electric Field in Ferroelectric Poly(Vinylidene Fluoride-Trifluoroethylene) Nanofibers. *Physical Review Applied*, **2020**, 13,	4.3	9
94	A Unified Approach to Nonlinear Transformation Materials. *Scientific Reports*, **2018**, 8, 4436	4.9	9
93	Multiresonance of energy transport and absence of heat pump in a force-driven lattice. *Physical Review E*, **2011**, 84, 031122	2.4	9
92	Wave packet dynamics in one-dimensional linear and nonlinear generalized Fibonacci lattices. *Physical Review E*, **2011**, 83, 056205	2.4	9
91	Local and nonlocal entanglement for quasiparticle pairs induced by Andreev reflection. *Physical Review B*, **2006**, 74,	3.3	9
90	Fidelity of a Bose-Einstein condensates. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 353, 216-220	2.3	9
89	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	3.7	9
88	Temperature dependence of thermal conductivities of coupled rotator lattice and the momentum diffusion in standard map. *European Physical Journal B*, **2015**, 88, 1	1.2	8
87	Heat conduction and energy diffusion in momentum-conserving one-dimensional full-lattice ding-a-ling model. *Physical Review E*, **2016**, 93, 022102	2.4	8
86	Enhanced thermoelectric cooling performance with graded thermoelectric materials. *Japanese Journal of Applied Physics*, **2018**, 57, 071801	1.4	8
85	Dark state, zero-index and topology in phononic metamaterials with negative mass and negative coupling. *New Journal of Physics*, **2019**, 21, 093033	2.9	8
84	Inhomogeneous thermal conductivity enhances thermoelectric cooling. *AIP Advances*, **2014**, 4, 124501	1.5	8
83	Thermodynamic stability of small-world oscillator networks: a case study of proteins. *Physical Review E*, **2009**, 79, 051922	2.4	8
82	Heat conduction in one dimensional systems: Fourier law, chaos, and heat control **2006**, 1-16		8
81	Reduction of thermal conductivity of anharmonic lattices. *Physical Review B*, **2006**, 74,	3.3	8

80	Electronic properties of the 1D Frenkel-Kontorova model. *Physical Review Letters*, **2002**, 88, 046804	7.4	8
79	Preface to Special Topic: Phononics: controlling thermal energy, information carried by phonons and beyond. *AIP Advances*, **2015**, 5, 053101	1.5	7
78	Phonon transport in silicon nanowires: The reduced group velocity and surface-roughness scattering. *Physical Review B*, **2016**, 94,	3.3	7
77	Stretch diffusion and heat conduction in one-dimensional nonlinear lattices. *Physical Review E*, **2016**, 93, 032130	2.4	7
76	Uncovering evolutionary ages of nodes in complex networks. *European Physical Journal B*, **2012**, 85, 1	1.2	7
75	Cumulants of heat transfer across nonlinear quantum systems. *European Physical Journal B*, **2013**, 86, 1	1.2	7
74	Transient unidirectional energy flow and diode-like phenomenon induced by non-Markovian environments. *Scientific Reports*, **2015**, 5, 15332	4.9	7
73	Temperature-dependent thermal conductivities of one-dimensional nonlinear Klein-Gordon lattices with a soft on-site potential. *Physical Review E*, **2014**, 90, 062122	2.4	7
72	Gallium ion implantation greatly reduces thermal conductivity and enhances electronic one of ZnO nanowires. *AIP Advances*, **2014**, 4, 057128	1.5	7
71	Controlling self-sustained spiking activity by adding or removing one network link. *Europhysics Letters*, **2013**, 102, 50002	1.6	7
70	Heat generation and transport due to time-dependent forces. *Physical Review E*, **2011**, 84, 041115	2.4	7
69	Comment on "Coherent ratchets in driven Bose-Einstein condensates". *Physical Review Letters*, **2010**, 104, 228901; author reply 228902	7.4	7
68	Thermal Conductivity of One-Dimensional Lattices with Self-Consistent Heat Baths: A Heuristic Derivation. *Journal of the Physical Society of Japan*, **2009**, 78, 044001	1.5	7
67	Pathway sensitivity analysis for detecting pro-proliferation activities of oncogenes and tumor suppressors of epidermal growth factor receptor-extracellular signal-regulated protein kinase pathway at altered protein levels. *Cancer*, **2009**, 115, 4246-63	6.4	7
66	Mode-locking of incommensurate phase by quantum zero-point energy in the Frenkel-Kontorova model. *Europhysics Letters*, **2001**, 53, 342-347	1.6	7
65	Communication: Cargo towing by artificial swimmers. *Journal of Chemical Physics*, **2016**, 145, 191103	3.9	7
64	Thermal-siphon phenomenon and thermal/electric conduction in complex networks. *National Science Review*, **2020**, 7, 270-277	10.8	7
63	Off-center rattling triggers high-temperature thermal transport in thermoelectric clathrates: Nonperturbative approach. *Physical Review B*, **2018**, 97,	3.3	7

62	Conformal interface of monolayer molybdenum diselenide/disulfide and dielectric substrate with improved thermal dissipation. *Journal Physics D: Applied Physics*, **2019**, 52, 385306	3	6
61	Spin-dependent Seebeck effect in Aharonov–Bohm rings with Rashba and Dresselhaus spin–orbit interactions. *Physica E: Low-Dimensional Systems and Nanostructures*, **2016**, 80, 163-167	3	6
60	High thermal conductivity and superior thermal stability of amorphous PMDA/ODA nanofiber. *Applied Physics Letters*, **2018**, 112, 221904	3.4	6
59	Influence of zero range process interaction on diffusion. *Chaos*, **2010**, 20, 043135	3.3	6
58	Thermal contraction in silicon nanowires at low temperatures. *Nanoscale*, **2010**, 2, 2864-7	7.7	6
57	Heat Conduction in a One-Dimensional Harmonic Chain with Three-Dimensional Vibrations. *Journal of the Physical Society of Japan*, **2008**, 77, 074003	1.5	6
56	Quantum resonance and antiresonance for a periodically kicked Bose-Einstein condensate in a one-dimensional box. *Physical Review E*, **2006**, 73, 056203	2.4	6
55	Correlations of chaotic eigenfunctions: a semiclassical analysis. *Journal of Physics A*, **2001**, 34, 7381-7391		6
54	General initial value form of the semiclassical propagator. *Physical Review A*, **2001**, 63,	2.6	6
53	Diffusion of active dimers in a Couette flow. *Soft Matter*, **2017**, 13, 2793-2799	3.6	5
52	Validity of local thermal equilibrium in anomalous heat diffusion. *New Journal of Physics*, **2019**, 21, 083019	2.9	5
51	Wave-packet rectification in nonlinear electronic systems: a tunable Aharonov-Bohm diode. *Scientific Reports*, **2014**, 4, 4566	4.9	5
50	Metabolic network analysis revealed distinct routes of deletion effects between essential and non-essential genes. *Molecular BioSystems*, **2012**, 8, 1179-86		5
49	Dynamics of elastic waves in two-dimensional phononic crystals with chaotic defect. *Applied Physics Letters*, **2007**, 91, 121902	3.4	5
48	Electron transport in interacting hybrid mesoscopic systems. *European Physical Journal B*, **2003**, 32, 401-405	1.2	5
47	Disturbance spreading in incommensurate and quasiperiodic systems. *Physical Review B*, **2000**, 61, 9414-9418	3.3	5
46	Anomalous transparency induced by cooperative disorders in phonon transport. *Physical Review B*, **2019**, 99,	3.3	4
45	New dynamics between volume and volatility. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 525, 1343-1350	3.3	4

44	Monitoring anharmonic phonon transport across interfaces in one-dimensional lattice chains. *Physical Review E*, **2020**, 101, 022133	2.4	4
43	Single-Shot Compressed Photoacoustic Tomographic Imaging with a Single Detector in a Scattering Medium. *Physical Review Applied*, **2020**, 13,	4.3	4
42	Variational approach to renormalized phonon in momentum-nonconserving nonlinear lattices. *Europhysics Letters*, **2016**, 114, 40002	1.6	4
41	Temperature and frequency dependent mean free paths of renormalized phonons in nonlinear lattices. *New Journal of Physics*, **2018**, 20, 023006	2.9	4
40	Influence of the degree of a complex network on heat conduction. *Physical Review E*, **2018**, 98, 022115	2.4	4
39	Inverted expression profiles of sex-biased genes in response to toxicant perturbations and diseases. *PLoS ONE*, **2013**, 8, e56668	3.7	4
38	Stability of Fock states in a two-component Bose-Einstein condensate with a regular classical counterpart. *Physical Review E*, **2008**, 77, 056218	2.4	4
37	Experimental evidence of wave chaos from a double slit experiment with water surface waves. *Physical Review E*, **2008**, 78, 047201	2.4	4
36	Reciprocity of thermal diffusion in time-modulated systems.. *Nature Communications*, **2022**, 13, 167	17.4	4
35	Graded thermal conductivity in 2D and 3D homogeneous hotspot systems. *Materials Today Physics*, **2022**, 22, 100605	8	4
34	Toxicogenomic analysis suggests chemical-induced sexual dimorphism in the expression of metabolic genes in zebrafish liver. *PLoS ONE*, **2012**, 7, e51971	3.7	4
33	Diffusion transients in convection rolls. *Journal of Fluid Mechanics*, **2021**, 912,	3.7	4
32	Enhanced thermoelectric properties through minority carriers blocking in nanocomposites. *Journal of Applied Physics*, **2019**, 126, 095107	2.5	3
31	Probing thermal transport across amorphous region embedded in a single crystalline silicon nanowire. *Scientific Reports*, **2020**, 10, 821	4.9	3
30	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, 124101	1.5	3
29	Universal statistics of wave functions in chaotic and disordered systems. *Europhysics Letters*, **2000**, 50, 300-306	1.6	3
28	Numerical accuracy of Bogomolny's semiclassical quantization scheme in quantum billiards. *Journal of Physics A*, **1999**, 32, 5419-5433		3
27	Construction of 3D Conductive Network in Liquid Gallium with Enhanced Thermal and Electrical Performance. *Advanced Materials Technologies*,2100970	6.8	3

26	Thermal conductance of the coupled-rotator chain: Influence of temperature and size. *Europhysics Letters*, **2017**, 117, 60004	1.6	2
25	Thermal conductivity of one-dimensional organic nanowires: effect of mass difference phonon scattering. *Nanotechnology*, **2020**, 31, 324003	3.4	2
24	Thermospin diode effect based on a quantum dot system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2014**, 378, 3638-3641	2.3	2
23	Enhancing mammalian hearing by a balancing between spontaneous otoacoustic emissions and spatial coupling. *Europhysics Letters*, **2012**, 98, 20005	1.6	2
22	HEAT SWITCH AND MODULATOR: A MODEL OF THERMAL TRANSISTOR. *International Journal of Modern Physics B*, **2007**, 21, 4017-4020	1.1	2
21	PUMPING CURRENT IN A QUANTUM DOT BY AN OSCILLATING MAGNETIC FIELD. *International Journal of Modern Physics B*, **2007**, 21, 4284-4288	1.1	2
20	Sensing coherent phonons with two-photon interference. *New Journal of Physics*, **2018**, 20, 023008	2.9	2
19	Energy diffusion of simple networks under the spatiotemporal thermostats. *European Physical Journal B*, **2021**, 94, 1	1.2	2
18	A method to calculate thermal conductivity of a nonperiodic system, bamboo Si1−xGex nanowire with axially degraded components. *European Physical Journal B*, **2017**, 90, 1	1.2	1
17	A topological wave transistor protected by the Euler characteristic. *Journal of Applied Physics*, **2018**, 123, 224505	2.5	1
16	Localized vibrational, edges and breathing modes of graphene nanoribbons with topological line defects. *European Physical Journal B*, **2013**, 86, 1	1.2	1
15	Spin-dependent Seebeck effect in asymmetric four-terminal systems with Rashba spin-orbit coupling. *Europhysics Letters*, **2015**, 110, 38004	1.6	1
14	Thermoelectric effect in Aharonov-Bohm structures. *Journal of Physics Condensed Matter*, **2015**, 27, 035303	2.8	1
13	Growth versus government management improvement during economic downturn. *Scientific Reports*, **2013**, 3, 1612	4.9	1
12	Ergodicity of the Stochastic Nosé-Hoover Heat Bath. *Journal of the Physical Society of Japan*, **2010**, 79, 074402	1.5	1
11	SIZE-DEPENDENT MELTING TEMPERATURE AND THERMAL CONDUCTIVITY OF NANOSCALE SEMICONDUCTORS. *International Journal of Modern Physics B*, **2007**, 21, 4026-4029	1.1	1
10	Modification to the pre-factor of the semiclassical propagator. *Europhysics Letters*, **2005**, 69, 692-698	1.6	1
9	Fringe structure in the phase-space dynamics of atomic stabilization in an intense field. *Chinese Physics B*, **2000**, 9, 24-30		1

8	Thermal rectification in three dimensional graphite nanocones. *International Journal of Heat and Mass Transfer*, **2021**, 179, 121675	4.9	0
7	Negative rectification and anomalous diffusion in nonlinear substrate potentials: Dynamical relaxation and information entropy.. *Physical Review E*, **2022**, 105, 024204	2.4	0
6	Acoustically manipulating internal structure of disk-in-sphere endoskeletal droplets.. *Nature Communications*, **2022**, 13, 987	17.4	0
5	Normal modes of a small bilayer system of binary classical charged particles trapped in a parabolic confinement potential. *Physical Review E*, **2008**, 78, 041401	2.4	
4	Nonequilibrium properties of the one-dimensional hard-point gas system. *Physical Review E*, **2006**, 74, 037201	2.4	
3	STABILITY OF QUANTUM MOTION: A SEMICLASSICAL APPROACH. *International Journal of Modern Physics B*, **2007**, 21, 4280-4283	1.1	
2	Molecular Dynamics Simulations for Computing Thermal Conductivity of Nanomaterials: Molecular Dynamics Simulations for Computing Thermal Conductivity of Nanomaterials **2015**, 1-57		
1	Anomalous Thermal Transport in Nanostructures319-334		