

Junichiro Shiomi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

182
papers

4,791
citations

40
h-index

62
g-index

191
ext. papers

5,705
ext. citations

6.1
avg. IF

6.08
L-index

#	Paper	IF	Citations
182	Negligible contribution of inter-dot coherent modes to heat conduction in quantum-dot superlattice. <i>Materials Today Physics</i> , 2022 , 22, 100601	8	0
181	A novel strategy for GaN-on-diamond device with a high thermal boundary conductance. <i>Journal of Alloys and Compounds</i> , 2022 , 905, 164076	5.7	4
180	Phase-transition-induced giant Thomson effect for thermoelectric cooling. <i>Applied Physics Reviews</i> , 2022 , 9, 011414	17.3	1
179	Metal-organic framework coated porous structures for enhanced thermoelectric performance. <i>Energy Conversion and Management</i> , 2022 , 255, 115289	10.6	0
178	Revisiting thermal conductivity and interface conductance at the nanoscale. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 183, 122056	4.9	2
177	P-TRANS: A Monte Carlo ray-tracing software to simulate phonon transport in arbitrary nanostructures. <i>Computer Physics Communications</i> , 2022 , 276, 108361	4.2	1
176	Ultrafast water permeation through nanochannels with a densely fluorinated interior surface. <i>Science</i> , 2022 , 376, 738-743	33.3	8
175	Ultra-high-performance heat spreader based on a graphite architecture with three-dimensional thermal routing. <i>Cell Reports Physical Science</i> , 2021 , 100621	6.1	1
174	Optimized Tamm-plasmon structure by Differential Evolution algorithm for single and dual peaks hot-electron photodetection. <i>Optical Materials</i> , 2021 , 113, 110857	3.3	0
173	Scalable monolayer-functionalized nanointerface for thermal conductivity enhancement in copper/diamond composite. <i>Carbon</i> , 2021 , 175, 299-306	10.4	5
172	Modulation of Interfacial Thermal Transport between Fumed Silica Nanoparticles by Surface Chemical Functionalization for Advanced Thermal Insulation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17404-17411	9.5	1
171	Nanoconfinement between Graphene Walls Suppresses the Near-Wall Diffusion of the Ionic Liquid [BMIM][PF]. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4527-4535	3.4	4
170	Weaker bonding can give larger thermal conductance at highly mismatched interfaces. <i>Science Advances</i> , 2021 , 7,	14.3	11
169	Exploring diamondlike lattice thermal conductivity crystals via feature-based transfer learning. <i>Physical Review Materials</i> , 2021 , 5,	3.2	7
168	Heat conduction below diffusive limit in amorphous superlattice structures. <i>Nano Energy</i> , 2021 , 84, 105903	10.31	2
167	Thermal properties of single-walled carbon nanotube forests with various volume fractions. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 171, 121076	4.9	2
166	Akhiezer mechanism dominates relaxation of propagons in amorphous material at room temperature. <i>Journal of Applied Physics</i> , 2021 , 130, 035101	2.5	2

165	Humidity-Dependent Thermal Boundary Conductance Controls Heat Transport of Super-Insulating Nanofibrillar Foams. <i>Matter</i> , 2021 , 4, 276-289	12.7	8
164	Ultimate impedance of coherent heat conduction in van der Waals graphene-MoS ₂ heterostructures. <i>Materials Today Physics</i> , 2021 , 16, 100324	8	6
163	Electronic transport descriptors for the rapid screening of thermoelectric materials. <i>Materials Horizons</i> , 2021 , 8, 2463-2474	14.4	2
162	Heat diffusion-related damping process in a highly precise coarse-grained model for nonlinear motion of SWCNT. <i>Scientific Reports</i> , 2021 , 11, 563	4.9	
161	Mechanically Strong, Scalable, Mesoporous Xerogels of Nanocellulose Featuring Light Permeability, Thermal Insulation, and Flame Self-Extinction. <i>ACS Nano</i> , 2021 , 15, 1436-1444	16.7	15
160	Reduction of interface thermal resistance between TIM and metal surface by tuning wettability. <i>Transactions of the JSME (in Japanese)</i> , 2021 , 87, 21-00023-21-00023	0.2	
159	Thermal Nanostructure Design by Materials Informatics. <i>Springer Series in Materials Science</i> , 2021 , 153-195	15.9	
158	Above-room-temperature giant thermal conductivity switching in spintronic multilayers. <i>Applied Physics Letters</i> , 2021 , 118, 042409	3.4	8
157	Phonon transport in multiphase nanostructured silicon fabricated by high-pressure torsion. <i>Journal of Applied Physics</i> , 2021 , 129, 085101	2.5	6
156	Anisotropic thermal conductivity measurement of organic thin film with bidirectional 3 μ method. <i>Review of Scientific Instruments</i> , 2021 , 92, 034902	1.7	3
155	Synergistic phonon scattering in epitaxial silicon multilayers with germanium nanodot inclusions. <i>Physical Review B</i> , 2021 , 104,	3.3	2
154	Tailoring the surface morphology of carbon nanotube forests by plasma etching: A parametric study. <i>Carbon</i> , 2021 , 180, 204-214	10.4	2
153	Thermal transport by phonons in thermoelectrics 2021 , 23-42		
152	Enhanced Reduction of Thermal Conductivity in Amorphous Silicon Nitride-Containing Phononic Crystals Fabricated Using Directed Self-Assembly of Block Copolymers. <i>ACS Nano</i> , 2020 , 14, 6980-6989	16.7	6
151	Machine-Learning-Optimized Aperiodic Superlattice Minimizes Coherent Phonon Heat Conduction. <i>Physical Review X</i> , 2020 , 10,	9.1	29
150	Two-path phonon interference resonance induces a stop band in a silicon crystal matrix with a multilayer array of embedded nanoparticles. <i>Physical Review B</i> , 2020 , 102,	3.3	5
149	Elastic inhomogeneity and anomalous thermal transport in ultrafine Si phononic crystals. <i>Nano Energy</i> , 2020 , 71, 104581	17.1	10
148	Contact-line behavior in boiling on a heterogeneous surface: Physical insights from diffuse-interface modeling. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	4

147	Designing metamaterials with quantum annealing and factorization machines. <i>Physical Review Research</i> , 2020 , 2,	3.9	25
146	Machine learning analysis of tunnel magnetoresistance of magnetic tunnel junctions with disordered MgAl ₂ O ₄ . <i>Physical Review Research</i> , 2020 , 2,	3.9	4
145	Design of a highly selective radiative cooling structure accelerated by materials informatics. <i>Optics Letters</i> , 2020 , 45, 343	3	10
144	Designing thermal functional materials by coupling thermal transport calculations and machine learning. <i>Journal of Applied Physics</i> , 2020 , 128, 161102	2.5	10
143	Identifying Optimal Strain in Bismuth Telluride Thermoelectric Film by Combinatorial Gradient Thermal Annealing and Machine Learning. <i>ACS Combinatorial Science</i> , 2020 , 22, 782-790	3.9	2
142	Quasiballistic phonon transport from first principles. <i>Physical Review B</i> , 2020 , 102,	3.3	3
141	Ultimate suppression of thermal transport in amorphous silicon nitride by phononic nanostructure. <i>Science Advances</i> , 2020 , 6,	14.3	8
140	Scalable Multi-nanostructured Silicon for Room-Temperature Thermoelectrics. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7083-7091	6.1	5
139	Enhancing Thermal Boundary Conductance of Graphite-Metal Interface by Triazine-Based Molecular Bonding. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37295-37301	9.5	11
138	Predicting Materials Properties with Little Data Using Shotgun Transfer Learning. <i>ACS Central Science</i> , 2019 , 5, 1717-1730	16.8	89
137	Unexpectedly high cross-plane thermoelectric performance of layered carbon nitrides. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2114-2121	13	34
136	Quantifying phonon particle and wave transport in silicon nanophononic metamaterial with cross junction. <i>Materials Today Physics</i> , 2019 , 8, 56-61	8	35
135	Ultrannarrow-Band Wavelength-Selective Thermal Emission with Aperiodic Multilayered Metamaterials Designed by Bayesian Optimization. <i>ACS Central Science</i> , 2019 , 5, 319-326	16.8	64
134	Revealing How Topography of Surface Microstructures Alters Capillary Spreading. <i>Scientific Reports</i> , 2019 , 9, 7787	4.9	5
133	Disorder limits the coherent phonon transport in two-dimensional phononic crystal structures. <i>Nanoscale</i> , 2019 , 11, 11839-11846	7.7	40
132	Porosity-tuned thermal conductivity in thermoelectric Al-doped ZnO thin films grown by mist-chemical vapor deposition. <i>Thin Solid Films</i> , 2019 , 685, 180-185	2.2	23
131	Monte Carlo tree search for materials design and discovery. <i>MRS Communications</i> , 2019 , 9, 532-536	2.7	15
130	Encrypted Thermal Printing with Regionalization Transformation. <i>Advanced Materials</i> , 2019 , 31, e1807849	4.4	70

129	Semiconducting carbon nanotubes as crystal growth templates and grain bridges in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12987-12992	13	44
128	Parametric Model to Analyze the Components of the Thermal Conductivity of a Cellulose-Nanofibril Aerogel. <i>Physical Review Applied</i> , 2019 , 11,	4.3	15
127	Materials Informatics for Heat Transfer: Recent Progresses and Perspectives. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2019 , 23, 157-172	3.7	24
126	High Thermal Boundary Conductance across Bonded Heterogeneous GaN-SiC Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33428-33434	9.5	41
125	Machine-learning-assisted discovery of polymers with high thermal conductivity using a molecular design algorithm. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	112
124	Hybrid Thermal Transport Characteristics of Doped Organic Semiconductor Poly(3,4-ethylenedioxythiophene):Tosylate. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26735-26741	3.8	20
123	High-Working-Pressure Sputtering of ZnO for Stable and Efficient Perovskite Solar Cells. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 389-396	4	13
122	One-directional thermal transport in densely aligned single-wall carbon nanotube films. <i>Applied Physics Letters</i> , 2019 , 115, 223104	3.4	15
121	Spectral Control of Thermal Boundary Conductance between Copper and Carbon Crystals by Self-Assembled Monolayers. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2594-2601	4	10
120	Observation of anomalous Ettingshausen effect and large transverse thermoelectric conductivity in permanent magnets. <i>Applied Physics Letters</i> , 2019 , 115, 222403	3.4	22
119	Towards ultimate impedance of phonon transport by nanostructure interface. <i>APL Materials</i> , 2019 , 7, 013102	5.7	17
118	Tuning phonon transport spectrum for better thermoelectric materials. <i>Science and Technology of Advanced Materials</i> , 2019 , 20, 10-25	7.1	25
117	Superlubrication by phonon confinement. <i>Physical Review B</i> , 2018 , 97,	3.3	11
116	Ultimate Confinement of Phonon Propagation in Silicon Nanocrystalline Structure. <i>Physical Review Letters</i> , 2018 , 120, 045901	7.4	38
115	Dynamic Wetting of Nanodroplets on Smooth and Patterned Graphene-Coated Surface. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8423-8429	3.8	13
114	Thermal conductivity reduction in silicon fishbone nanowires. <i>Scientific Reports</i> , 2018 , 8, 4452	4.9	39
113	Thermal phonon engineering by tailored nanostructures. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 080101	1.4	76
112	Impact of metastable phases on electrical properties of Si with different doping concentrations after processing by high-pressure torsion. <i>Scripta Materialia</i> , 2018 , 157, 120-123	5.6	11

111	Phonon Lifetime Observation in Epitaxial ScN Film with Inelastic X-Ray Scattering Spectroscopy. <i>Physical Review Letters</i> , 2018 , 120, 235901	7.4	16
110	Multifunctional structural design of graphene thermoelectrics by Bayesian optimization. <i>Science Advances</i> , 2018 , 4, eaar4192	14.3	75
109	Effect of dissolved gas on bubble growth on a biphilic surface: A diffuse-interface simulation approach. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 816-829	4.9	4
108	Ultra-Narrowband Wavelength-Selective Thermal Emitter Designed by Bayesian Optimization. <i>The Proceedings of the Thermal Engineering Conference</i> , 2018 , 2018, 0135	0	
107	Modulating temperature dependence of thermal conductivity by nanostructuring. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 120312	1.4	1
106	Thermal Boundary Conductance Across Heteroepitaxial ZnO/GaN Interfaces: Assessment of the Phonon Gas Model. <i>Nano Letters</i> , 2018 , 18, 7469-7477	11.5	37
105	Molecular dynamics study on heat conduction in poly(3,4-ethylenedioxythiophene). <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 101601	1.4	6
104	Modeling Heat Conduction in Nanoporous Silicon with Geometry Distributions. <i>Physical Review Applied</i> , 2018 , 10,	4.3	10
103	Fabrication of uniform vertically-aligned carbon nanotube/polymer composite thin films by capillary flow intrusion. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 115101	1.4	3
102	Akhiezer mechanism limits coherent heat conduction in phononic crystals. <i>Physical Review B</i> , 2018 , 98,	3.3	12
101	Revisiting PbTe to identify how thermal conductivity is really limited. <i>Physical Review B</i> , 2018 , 97,	3.3	21
100	Electrostatic cloaking of surface structure for dynamic wetting. <i>Science Advances</i> , 2017 , 3, e1602202	14.3	7
99	Thermal rectification in restructured graphene with locally modulated temperature dependence of thermal conductivity. <i>Physical Review B</i> , 2017 , 96,	3.3	13
98	Designing Nanostructures for Phonon Transport via Bayesian Optimization. <i>Physical Review X</i> , 2017 , 7,	9.1	93
97	MDTS: automatic complex materials design using Monte Carlo tree search. <i>Science and Technology of Advanced Materials</i> , 2017 , 18, 498-503	7.1	34
96	Modulation of thermal and thermoelectric transport in individual carbon nanotubes by fullerene encapsulation. <i>Nature Materials</i> , 2017 , 16, 892-897	27	83
95	Early Onset of Nucleate Boiling on Gas-covered Bipphilic Surfaces. <i>Scientific Reports</i> , 2017 , 7, 2036	4.9	29
94	Effects of defects on thermoelectric properties of carbon nanotubes. <i>Physical Review B</i> , 2017 , 95,	3.3	45

93	Understanding decoupling mechanisms of liquid-mixture transport properties through regression analysis with structural perturbation. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 105, 12-17	4.9	1
92	Phonon-interference resonance effects by nanoparticles embedded in a matrix. <i>Physical Review B</i> , 2017 , 96,	3.3	18
91	Probing length-scale separation of thermal and spin currents by nanostructuring YIG. <i>Physical Review Materials</i> , 2017 , 1,	3.2	13
90	Mechanism of Temperature Dependent Thermal Transport across the Interface between Self-Assembled Monolayer and Water. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26678-26685	3.8	28
89	Nano-cross-junction effect on phonon transport in silicon nanowire cages. <i>Physical Review B</i> , 2016 , 94,	3.3	84
88	Heat conduction in nanostructured materials. <i>Journal of Thermal Science and Technology</i> , 2016 , 11, JTST0001-JTST0001	0.7	8
87	Effects of phonon interference through long range interatomic bonds on thermal interface conductance. <i>Low Temperature Physics</i> , 2016 , 42, 711-716	0.7	8
86	Research Update: Phonon engineering of nanocrystalline silicon thermoelectrics. <i>APL Materials</i> , 2016 , 4, 104504	5.7	21
85	Harmonic phonon theory for calculating thermal conductivity spectrum from first-principles dispersion relations. <i>Applied Physics Letters</i> , 2016 , 108, 201903	3.4	7
84	Long-range interatomic forces can minimize heat transfer: From slowdown of longitudinal optical phonons to thermal conductivity minimum. <i>Physical Review B</i> , 2016 , 94,	3.3	4
83	When and how surface structure determines the dynamics of partial wetting. <i>Europhysics Letters</i> , 2015 , 110, 46002	1.6	5
82	Crystalline-Amorphous Silicon Nanocomposites with Reduced Thermal Conductivity for Bulk Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13484-9	9.5	45
81	Tuning thermal conductance across sintered silicon interface by local nanostructures. <i>Nano Energy</i> , 2015 , 13, 601-608	17.1	21
80	Thermal conductance of silicon interfaces directly bonded by room-temperature surface activation. <i>Applied Physics Letters</i> , 2015 , 106, 081603	3.4	17
79	Effective phonon mean free path in polycrystalline nanostructures. <i>Applied Physics Letters</i> , 2015 , 106, 171901	3.4	67
78	Impeded thermal transport in Si multiscale hierarchical architectures with phononic crystal nanostructures. <i>Physical Review B</i> , 2015 , 91,	3.3	58
77	Enhancement of anomalous Nernst effects in metallic multilayers free from proximity-induced magnetism. <i>Physical Review B</i> , 2015 , 92,	3.3	68
76	Unconventional scaling and significant enhancement of the spin Seebeck effect in multilayers. <i>Physical Review B</i> , 2015 , 92,	3.3	62

75	Thermally induced nonlinear vibration of single-walled carbon nanotubes. <i>Physical Review B</i> , 2015 , 92,	3.3	11
74	Surface structure determines dynamic wetting. <i>Scientific Reports</i> , 2015 , 5, 8474	4.9	46
73	Alloy composition of half-Heusler compounds for high thermoelectric performance. <i>Transactions of the JSME (in Japanese)</i> , 2015 , 81, 14-00652-14-00652	0.2	
72	Thermal Conductance Analysis of Sintered Nanostructures from the Viewpoint of Phonon Transport. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2015 , 62, 169-174	0.2	
71	Nanoscale thermal conductivity spectroscopy by using gold nano-islands heat absorbers. <i>Applied Physics Letters</i> , 2015 , 106, 073102	3.4	15
70	Hot extrusion to manufacture the metal matrix composite of carbon nanotube and aluminum with excellent electrical conductivities and mechanical properties. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 257-260	4.9	11
69	Anomalous reduction of thermal conductivity in coherent nanocrystal architecture for silicon thermoelectric material. <i>Nano Energy</i> , 2015 , 12, 845-851	17.1	120
68	Thermal Interface Conductance Between Aluminum and Silicon by Molecular Dynamics Simulations. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015 , 12, 168-174	0.3	54
67	Scaling laws of cumulative thermal conductivity for short and long phonon mean free paths. <i>Applied Physics Letters</i> , 2014 , 105, 131901	3.4	23
66	Thermal conductivity of bulk nanostructured lead telluride. <i>Applied Physics Letters</i> , 2014 , 104, 021915	3.4	23
65	Probing and tuning inelastic phonon conductance across finite-thickness interface. <i>Applied Physics Express</i> , 2014 , 7, 121801	2.4	36
64	NONEQUILIRIUM MOLECULAR DYNAMICS METHODS FOR LATTICE HEAT CONDUCTION CALCULATIONS. <i>Annual Review of Heat Transfer</i> , 2014 , 17, 177-203	2.7	35
63	22pm1-E2 Numerical simulation of effective phonon mean free path in polycrystalline nanostructures. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2014 , 2014.6, _22pm1-E2--_22pm1-E2-	0	
62	Anomalous Thermal Conduction Characteristics of Phase Change Composites with Single-Walled Carbon Nanotube Inclusions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15409-15413	3.8	65
61	Thermal resistance and phonon scattering at the interface between carbon nanotube and amorphous polyethylene. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 1024-1029	4.9	62
60	Gallium arsenide thermal conductivity and optical phonon relaxation times from first-principles calculations. <i>Europhysics Letters</i> , 2013 , 101, 16001	1.6	82
59	Tunable electrical and thermal transport in ice-templated multilayer graphene nanocomposites through freezing rate control. <i>ACS Nano</i> , 2013 , 7, 11183-9	16.7	62
58	Enhancement of thermoelectric figure-of-merit at low temperatures by titanium substitution for hafnium in n-type half-Heuslers $\text{Hf}_{0.75}\text{TixZr}_{0.25}\text{NiSn}_{0.99}\text{Sb}_{0.01}$. <i>Nano Energy</i> , 2013 , 2, 82-87	17.1	86

57	Dynamic wetting at the nanoscale. <i>Physical Review E</i> , 2013 , 88, 033010	2.4	29
56	Phonon transport analysis of silicon germanium alloys using molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2013 , 113, 203514	2.5	23
55	Gas Surface Energy Exchange in Collisions of Helium Atoms with Aligned Single-Walled Carbon Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14254-14260	3.8	5
54	Importance of local force fields on lattice thermal conductivity reduction in PbTe $1-x$ Se x alloys. <i>Europhysics Letters</i> , 2013 , 102, 46002	1.6	34
53	Molecular Dynamics of Highly Efficient Flow at the Nanoscale. <i>Journal of the Visualization Society of Japan</i> , 2013 , 33, 14-18	0	
52	7PM1-C-4 Influence of interface structure on phonon transport in bulk nanostructured thermoelectric materials. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2013 , 2013.5, 283-284	0	
51	Microscopic mechanism of low thermal conductivity in lead telluride. <i>Physical Review B</i> , 2012 , 85,	3.3	101
50	Simulation study on the adsorption properties of linear alkanes on closed nanotube bundles. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9812-9	3.4	15
49	Diameter modulation of vertically aligned single-walled carbon nanotubes. <i>ACS Nano</i> , 2012 , 6, 7472-9	16.7	48
48	Influence of ion size and charge on osmosis. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4206-11	3.4	21
47	Diameter controlled chemical vapor deposition synthesis of single-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 370-6	1.3	17
46	Effect of bending buckling of carbon nanotubes on thermal conductivity of carbon nanotube materials. <i>Journal of Applied Physics</i> , 2012 , 111, 053501	2.5	34
45	Stronger phonon scattering by larger differences in atomic mass and size in p-type half-Heuslers Hf $_{1-x}$ Ti $_x$ CoSb $_{0.8}$ Sn $_{0.2}$. <i>Energy and Environmental Science</i> , 2012 , 5, 7543	35.4	205
44	Growth of Horizontally Aligned Single-Walled Carbon Nanotubes on the Singular R-Plane (10 $\bar{1}$ 1) of Quartz. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6805-6808	3.8	10
43	Generalized model of thermal boundary conductance between SWNT and surrounding supercritical Lennard-Jones fluid Derivation from molecular dynamics simulations. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 2008-2013	4.9	5
42	Enhanced thermal conductivity of ethylene glycol with single-walled carbon nanotube inclusions. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 3885-3890	4.9	105
41	Graphene-diamond hybrid structure as spin-polarized conducting wire with thermally efficient heat sinks. <i>Applied Physics Letters</i> , 2012 , 100, 233101	3.4	12
40	Temperature Dependent Thermal Conductivity Increase of Aqueous Nanofluid with Single Walled Carbon Nanotube Inclusion. <i>Materials Express</i> , 2012 , 2, 213-223	1.3	48

39	P-OS5-3 Lattice thermal conductivity calculations of nanostructured thermoelectric materials using Monte Carlo method. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2012 , 2012.4, 285-286	0	
38	Facile fabrication of all-SWNT field-effect transistors. <i>Nano Research</i> , 2011 , 4, 580-588	10	10
37	Tunable separation of single-walled carbon nanotubes by dual-surfactant density gradient ultracentrifugation. <i>Nano Research</i> , 2011 , 4, 623-634	10	24
36	Anisotropic electrical conduction of vertically-aligned single-walled carbon nanotube films. <i>Carbon</i> , 2011 , 49, 1446-1452	10.4	27
35	Thermal conductivity of half-Heusler compounds from first-principles calculations. <i>Physical Review B</i> , 2011 , 84,	3.3	163
34	Isotope-induced elastic scattering of optical phonons in individual suspended single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2011 , 99, 093104	3.4	4
33	Reduction of phonon lifetimes and thermal conductivity of a carbon nanotube on amorphous silica. <i>Physical Review B</i> , 2011 , 84,	3.3	62
32	MP-3 Phonon transport analysis of silicon crystal by molecular dynamics method. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2011 , 2011.3, 73-74	0	
31	Evaluation of adsorption capacity of single-walled carbon nanotubes for application to micro gas preconcentrators 2010 ,		1
30	Parametric study of alcohol catalytic chemical vapor deposition for controlled synthesis of vertically aligned single-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3901-6	1.3	11
29	Ion Desorption from Single-Walled Carbon Nanotubes Induced by Soft X-ray Illumination. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 105104	1.4	2
28	Temperature-dependent phonon conduction and nanotube engagement in metalized single wall carbon nanotube films. <i>Nano Letters</i> , 2010 , 10, 2395-400	11.5	60
27	Growth mechanism of single-walled carbon nanotube from catalytic reaction inside carbon nanotube template. <i>ACS Nano</i> , 2010 , 4, 4769-75	16.7	7
26	Thermal Boundary Conduction between a Single-Walled Carbon Nanotube and Surrounding Material(Thermal Engineering). <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , 2010 , 76, 642-649		1
25	Scattering Process of Transmitted Gas Molecules Through Vertically Aligned Single-Walled Carbon Nanotube Arrays(The 1st Symposium on Micro-Nano Engineering). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2010 , 76, 1933-1935		
24	Magneto-Absorption Spectra from Selected Chirality of Single-Walled Carbon Nanotubes. <i>Journal of Low Temperature Physics</i> , 2010 , 159, 267-271	1.3	
23	Diffusive-Ballistic Heat Conduction of Carbon Nanotubes and Nanographene Ribbons. <i>International Journal of Thermophysics</i> , 2010 , 31, 1945-1951	2.1	24
22	Micro Gas Preconcentrator Made of a Film of Single-Walled Carbon Nanotubes. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010 , 130, 207-211	0.2	12

21	MNM-4A-2 Diameter controlled CVD synthesis of single-walled carbon nanotubes. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2010 , 2010.2, 173-174	0	
20	Dielectric relaxation of water inside a single-walled carbon nanotube. <i>Physical Review B</i> , 2009 , 80,	3.3	18
19	Carbon Nanotube Stationary Phase in a Microfabricated Column for High-Performance Gas Chromatography 2009 ,		8
18	Numerical calculation of the dielectrophoretic force on a slender body. <i>Electrophoresis</i> , 2009 , 30, 831-8	3.6	2
17	Mechanism and Optimization of Metal Deposition onto Vertically Aligned Single-Walled Carbon Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14230-14235	3.8	8
16	Water transport inside a single-walled carbon nanotube driven by a temperature gradient. <i>Nanotechnology</i> , 2009 , 20, 055708	3.4	70
15	High-precision selective deposition of catalyst for facile localized growth of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10344-5	16.4	27
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