

Junichiro Shiomi

List of Publications by Year in descending order

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189
papers

6,692
citations

43973

48
h-index

76769

74
g-index

191
all docs

191
docs citations

191
times ranked

6610
citing authors

#	ARTICLE	IF	CITATIONS
1	Stronger phonon scattering by larger differences in atomic mass and size in p-type half-Heuslers $\text{Hf}_{1-x}\text{TixCoSb}_{0.8}\text{Sn}_{0.2}$. <i>Energy and Environmental Science</i> , 2012, 5, 7543.	15.6	244
2	Machine-learning-assisted discovery of polymers with high thermal conductivity using a molecular design algorithm. <i>Npj Computational Materials</i> , 2019, 5, .	3.5	234
3	Non-Fourier heat conduction in a single-walled carbon nanotube: Classical molecular dynamics simulations. <i>Physical Review B</i> , 2006, 73, .	1.1	224
4	Predicting Materials Properties with Little Data Using Shotgun Transfer Learning. <i>ACS Central Science</i> , 2019, 5, 1717-1730.	5.3	223
5	Thermal conductivity of half-Heusler compounds from first-principles calculations. <i>Physical Review B</i> , 2011, 84, .	1.1	187
6	Anomalous reduction of thermal conductivity in coherent nanocrystal architecture for silicon thermoelectric material. <i>Nano Energy</i> , 2015, 12, 845-851.	8.2	150
7	Designing Nanostructures for Phonon Transport via Bayesian Optimization. <i>Physical Review X</i> , 2017, 7, .	2.8	127
8	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.	2.5	122
9	Ultranarrow-Band Wavelength-Selective Thermal Emission with Aperiodic Multilayered Metamaterials Designed by Bayesian Optimization. <i>ACS Central Science</i> , 2019, 5, 319-326.	5.3	121
10	Thermal boundary resistance between single-walled carbon nanotubes and surrounding matrices. <i>Physical Review B</i> , 2008, 78, .	1.1	119
11	Molecular Dynamics of Diffusive-Ballistic Heat Conduction in Single-Walled Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 2005.	0.8	116
12	Microscopic mechanism of low thermal conductivity in lead telluride. <i>Physical Review B</i> , 2012, 85, .	1.1	115
13	Nano-cross-junction effect on phonon transport in silicon nanowire cages. <i>Physical Review B</i> , 2016, 94, .	1.1	112
14	Encrypted Thermal Printing with Regionalization Transformation. <i>Advanced Materials</i> , 2019, 31, e1807849.	11.1	111
15	Thermal phonon engineering by tailored nanostructures. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 080101.	0.8	105
16	Multifunctional structural design of graphene thermoelectrics by Bayesian optimization. <i>Science Advances</i> , 2018, 4, eaar4192.	4.7	105
17	Gallium arsenide thermal conductivity and optical phonon relaxation times from first-principles calculations. <i>Europhysics Letters</i> , 2013, 101, 16001.	0.7	100
18	Modulation of thermal and thermoelectric transport in individual carbon nanotubes by fullerene encapsulation. <i>Nature Materials</i> , 2017, 16, 892-897.	13.3	99

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19	Enhancement of thermoelectric figure-of-merit at low temperatures by titanium substitution for hafnium in n-type half-Heuslers $\text{Hf}_{0.75}\text{TiZr}_{0.25}\text{NiSn}_{0.99}\text{Sb}_{0.01}$. <i>Nano Energy</i> , 2013, 2, 82-87.	8.2	95
20	Anisotropic Heat Transfer of Single-Walled Carbon Nanotubes. <i>Journal of Thermal Science and Technology</i> , 2006, 1, 138-148.	0.6	94
21	Enhancement of anomalous Nernst effects in metallic multilayers free from proximity-induced magnetism. <i>Physical Review B</i> , 2015, 92, .	1.1	94
22	High Thermal Boundary Conductance across Bonded Heterogeneous GaN/SiC Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33428-33434.	4.0	82
23	Ultrafast water permeation through nanochannels with a densely fluorinated interior surface. <i>Science</i> , 2022, 376, 738-743.	6.0	82
24	Effective phonon mean free path in polycrystalline nanostructures. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	79
25	Thermal Interface Conductance Between Aluminum and Silicon by Molecular Dynamics Simulations. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 168-174.	0.4	78
26	Water transport inside a single-walled carbon nanotube driven by a temperature gradient. <i>Nanotechnology</i> , 2009, 20, 055708.	1.3	76
27	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.	1.5	74
28	Unconventional scaling and significant enhancement of the spin Seebeck effect in multilayers. <i>Physical Review B</i> , 2015, 92, .	1.1	73
29	Designing metamaterials with quantum annealing and factorization machines. <i>Physical Review Research</i> , 2020, 2, .	1.3	73
30	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.	2.5	72
31	Reduction of phonon lifetimes and thermal conductivity of a carbon nanotube on amorphous silica. <i>Physical Review B</i> , 2011, 84, .	1.1	67
32	Temperature-Dependent Phonon Conduction and Nanotube Engagement in Metalized Single Wall Carbon Nanotube Films. <i>Nano Letters</i> , 2010, 10, 2395-2400.	4.5	66
33	Disorder limits the coherent phonon transport in two-dimensional phononic crystal structures. <i>Nanoscale</i> , 2019, 11, 11839-11846.	2.8	66
34	Tunable Electrical and Thermal Transport in Ice-Templated Multilayer Graphene Nanocomposites through Freezing Rate Control. <i>ACS Nano</i> , 2013, 7, 11183-11189.	7.3	65
35	Impeded thermal transport in Si multiscale hierarchical architectures with phononic crystal nanostructures. <i>Physical Review B</i> , 2015, 91, .	1.1	63
36	Crystalline/Amorphous Silicon Nanocomposites with Reduced Thermal Conductivity for Bulk Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13484-13489.	4.0	62

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37	Effects of defects on thermoelectric properties of carbon nanotubes. <i>Physical Review B</i> , 2017, 95, .	1.1	61
38	Machine-Learning-Optimized Aperiodic Superlattice Minimizes Coherent Phonon Heat Conduction. <i>Physical Review X</i> , 2020, 10, .	2.8	61
39	Temperature Dependent Thermal Conductivity Increase of Aqueous Nanofluid with Single Walled Carbon Nanotube Inclusion. <i>Materials Express</i> , 2012, 2, 213-223.	0.2	59
40	Thermal conductivity reduction in silicon fishbone nanowires. <i>Scientific Reports</i> , 2018, 8, 4452.	1.6	59
41	Mechanically Strong, Scalable, Mesoporous Xerogels of Nanocellulose Featuring Light Permeability, Thermal Insulation, and Flame Self-Extinction. <i>ACS Nano</i> , 2021, 15, 1436-1444.	7.3	59
42	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.	5.2	57
43	Molecular Dynamics of Ice-Nanotube Formation Inside Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12188-12193.	1.5	55
44	Quantifying phonon particle and wave transport in silicon nanophononic metamaterial with cross junction. <i>Materials Today Physics</i> , 2019, 8, 56-61.	2.9	55
45	Surface structure determines dynamic wetting. <i>Scientific Reports</i> , 2015, 5, 8474.	1.6	54
46	Thermal Boundary Conductance Across Heteroepitaxial ZnO/GaN Interfaces: Assessment of the Phonon Gas Model. <i>Nano Letters</i> , 2018, 18, 7469-7477.	4.5	53
47	Diameter Modulation of Vertically Aligned Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 7472-7479.	7.3	52
48	MDTS: automatic complex materials design using Monte Carlo tree search. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 498-503.	2.8	52
49	Probing and tuning inelastic phonon conductance across finite-thickness interface. <i>Applied Physics Express</i> , 2014, 7, 121801.	1.1	49
50	Ultimate Confinement of Phonon Propagation in Silicon Nanocrystalline Structure. <i>Physical Review Letters</i> , 2018, 120, 045901.	2.9	45
51	Unexpectedly high cross-plane thermoelectric performance of layered carbon nitrides. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2114-2121.	5.2	44
52	Observation of anomalous Ettingshausen effect and large transverse thermoelectric conductivity in permanent magnets. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	44
53	NONEQUILIRIUM MOLECULAR DYNAMICS METHODS FOR LATTICE HEAT CONDUCTION CALCULATIONS. <i>Annual Review of Heat Transfer</i> , 2014, 17, 177-203.	0.3	43
54	Materials Informatics for Heat Transfer: Recent Progresses and Perspectives. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2019, 23, 157-172.	1.4	41

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55	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.	1.5	40
56	Importance of local force fields on lattice thermal conductivity reduction in PbTe $1\hat{a}^{\circ}x$ Se x alloys. <i>Europhysics Letters</i> , 2013, 102, 46002.	0.7	39
57	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.	0.8	38
58	Effect of bending buckling of carbon nanotubes on thermal conductivity of carbon nanotube materials. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	37
59	Tuning phonon transport spectrum for better thermoelectric materials. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 10-25.	2.8	36
60	Heat conduction in nanostructured materials. <i>Journal of Thermal Science and Technology</i> , 2016, 11, JTST0001-JTST0001.	0.6	35
61	Hybrid Thermal Transport Characteristics of Doped Organic Semiconductor Poly(3,4-ethylenedioxythiophene):Tosylate. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26735-26741.	1.5	35
62	Weaker bonding can give larger thermal conductance at highly mismatched interfaces. <i>Science Advances</i> , 2021, 7, .	4.7	35
63	Early Onset of Nucleate Boiling on Gas-covered Biphilic Surfaces. <i>Scientific Reports</i> , 2017, 7, 2036.	1.6	34
64	Monte Carlo tree search for materials design and discovery. <i>MRS Communications</i> , 2019, 9, 532-536.	0.8	34
65	Anisotropic electrical conduction of vertically-aligned single-walled carbon nanotube films. <i>Carbon</i> , 2011, 49, 1446-1452.	5.4	33
66	Dynamic wetting at the nanoscale. <i>Physical Review E</i> , 2013, 88, 033010.	0.8	33
67	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, 10344-10345.	6.6	30
68	Parametric Model to Analyze the Components of the Thermal Conductivity of a Cellulose-Nanofibril Aerogel. <i>Physical Review Applied</i> , 2019, 11, .	1.5	29
69	Diffusive-Ballistic Heat Conduction of Carbon Nanotubes and Nanographene Ribbons. <i>International Journal of Thermophysics</i> , 2010, 31, 1945-1951.	1.0	28
70	Phonon transport analysis of silicon germanium alloys using molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	28
71	Scaling laws of cumulative thermal conductivity for short and long phonon mean free paths. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	28
72	Revisiting PbTe to identify how thermal conductivity is really limited. <i>Physical Review B</i> , 2018, 97, .	1.1	28

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73	Towards ultimate impedance of phonon transport by nanostructure interface. <i>APL Materials</i> , 2019, 7, 013102.	2.2	27
74	Exploring diamondlike lattice thermal conductivity crystals via feature-based transfer learning. <i>Physical Review Materials</i> , 2021, 5, .	0.9	27
75	Feedback control of oscillatory thermocapillary convection in a half-zone liquid bridge. <i>Journal of Fluid Mechanics</i> , 2003, 496, 193-211.	1.4	25
76	Tunable separation of single-walled carbon nanotubes by dual-surfactant density gradient ultracentrifugation. <i>Nano Research</i> , 2011, 4, 623-634.	5.8	25
77	Influence of Ion Size and Charge on Osmosis. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4206-4211.	1.2	25
78	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.	2.0	25
79	Vertically Aligned ¹³ C Single-Walled Carbon Nanotubes Synthesized by No-Flow Alcohol Chemical Vapor Deposition and their Root Growth Mechanism. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 1971-1974.	0.8	24
80	Thermal conductivity of bulk nanostructured lead telluride. <i>Applied Physics Letters</i> , 2014, 104, 021915.	1.5	24
81	Tuning thermal conductance across sintered silicon interface by local nanostructures. <i>Nano Energy</i> , 2015, 13, 601-608.	8.2	24
82	Research Update: Phonon engineering of nanocrystalline silicon thermoelectrics. <i>APL Materials</i> , 2016, 4, 104504.	2.2	24
83	Phonon-interference resonance effects by nanoparticles embedded in a matrix. <i>Physical Review B</i> , 2017, 96, .	1.1	24
84	Phonon Lifetime Observation in Epitaxial ScN Film with Inelastic X-Ray Scattering Spectroscopy. <i>Physical Review Letters</i> , 2018, 120, 235901.	2.9	23
85	One-directional thermal transport in densely aligned single-wall carbon nanotube films. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	23
86	Dielectric relaxation of water inside a single-walled carbon nanotube. <i>Physical Review B</i> , 2009, 80, .	1.1	21
87	Thermal conductance of silicon interfaces directly bonded by room-temperature surface activation. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	21
88	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.	1.7	20
89	Humidity-Dependent Thermal Boundary Conductance Controls Heat Transport of Super-Insulating Nanofibrillar Foams. <i>Matter</i> , 2021, 4, 276-289.	5.0	20
90	Diameter Controlled Chemical Vapor Deposition Synthesis of Single-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 370-376.	0.9	19

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91	Thermal rectification in restructured graphene with locally modulated temperature dependence of thermal conductivity. <i>Physical Review B</i> , 2017, 96, .	1.1	19
92	Ultimate impedance of coherent heat conduction in van der Waals graphene-MoS2 heterostructures. <i>Materials Today Physics</i> , 2021, 16, 100324.	2.9	19
93	Graphene-diamond hybrid structure as spin-polarized conducting wire with thermally efficient heat sinks. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	18
94	Dynamic Wetting of Nanodroplets on Smooth and Patterned Graphene-Coated Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8423-8429.	1.5	18
95	Above-room-temperature giant thermal conductivity switching in spintronic multilayers. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	18
96	Probing length-scale separation of thermal and spin currents by nanostructuring YIG. <i>Physical Review Materials</i> , 2017, 1, .	0.9	18
97	Nanoscale thermal conductivity spectroscopy by using gold nano-islands heat absorbers. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	17
98	Superlubrication by phonon confinement. <i>Physical Review B</i> , 2018, 97, .	1.1	17
99	Scalable Multi-nanostructured Silicon for Room-Temperature Thermoelectrics. <i>ACS Applied Energy Materials</i> , 2019, 2, 7083-7091.	2.5	17
100	Designing thermal functional materials by coupling thermal transport calculations and machine learning. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	17
101	Elastic inhomogeneity and anomalous thermal transport in ultrafine Si phononic crystals. <i>Nano Energy</i> , 2020, 71, 104581.	8.2	17
102	Scalable monolayer-functionalized nanointerface for thermal conductivity enhancement in copper/diamond composite. <i>Carbon</i> , 2021, 175, 299-306.	5.4	17
103	High-Working-Pressure Sputtering of ZnO for Stable and Efficient Perovskite Solar Cells. <i>ACS Applied Electronic Materials</i> , 2019, 1, 389-396.	2.0	16
104	Electronic transport descriptors for the rapid screening of thermoelectric materials. <i>Materials Horizons</i> , 2021, 8, 2463-2474.	6.4	16
105	Simulation Study on the Adsorption Properties of Linear Alkanes on Closed Nanotube Bundles. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9812-9819.	1.2	15
106	Ultimate suppression of thermal transport in amorphous silicon nitride by phononic nanostructure. <i>Science Advances</i> , 2020, 6, .	4.7	15
107	Design of a highly selective radiative cooling structure accelerated by materials informatics. <i>Optics Letters</i> , 2020, 45, 343.	1.7	15
108	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, 3901-3906.	0.9	14

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109	Akhiezer mechanism limits coherent heat conduction in phononic crystals. <i>Physical Review B</i> , 2018, 98, .	1.1	14
110	Revealing How Topography of Surface Microstructures Alters Capillary Spreading. <i>Scientific Reports</i> , 2019, 9, 7787.	1.6	14
111	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, .	1.1	14
112	Tailoring the surface morphology of carbon nanotube forests by plasma etching: A parametric study. <i>Carbon</i> , 2021, 180, 204-214.	5.4	14
113	Micro Gas Preconcentrator Made of a Film of Single-Walled Carbon Nanotubes. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010, 130, 207-211.	0.0	14
114	Photonic design for color compatible radiative cooling accelerated by materials informatics. <i>International Journal of Heat and Mass Transfer</i> , 2022, 195, 123193.	2.5	14
115	Facile fabrication of all-SWNT field-effect transistors. <i>Nano Research</i> , 2011, 4, 580-588.	5.8	13
116	Modeling Heat Conduction in Nanoporous Silicon with Geometry Distributions. <i>Physical Review Applied</i> , 2018, 10, .	1.5	13
117	Enhancing Thermal Boundary Conductance of Graphiteâ€“Metal Interface by Triazine-Based Molecular Bonding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37295-37301.	4.0	13
118	Phase-transition-induced giant Thomson effect for thermoelectric cooling. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	13
119	Growth of Horizontally Aligned Single-Walled Carbon Nanotubes on the Singular R-Plane (10â€“11) of Quartz. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6805-6808.	1.5	12
120	Thermally induced nonlinear vibration of single-walled carbon nanotubes. <i>Physical Review B</i> , 2015, 92, .	1.1	12
121	Electrostatic cloaking of surface structure for dynamic wetting. <i>Science Advances</i> , 2017, 3, e1602202.	4.7	12
122	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.	2.6	12
123	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.	7.3	12
124	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.	4.0	12
125	A novel strategy for GaN-on-diamond device with a high thermal boundary conductance. <i>Journal of Alloys and Compounds</i> , 2022, 905, 164076.	2.8	11
126	Electrothermal flow in dielectrophoresis of single-walled carbon nanotubes. <i>Physical Review B</i> , 2007, 76, .	1.1	10

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145	Revisiting thermal conductivity and interface conductance at the nanoscale. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122056.	2.5	6
146	Metal-organic framework coated porous structures for enhanced thermoelectric performance. <i>Energy Conversion and Management</i> , 2022, 255, 115289.	4.4	6
147	P-TRANS: A Monte Carlo ray-tracing software to simulate phonon transport in arbitrary nanostructures. <i>Computer Physics Communications</i> , 2022, 276, 108361.	3.0	6
148	Numerical calculation of the dielectrophoretic force on a slender body. <i>Electrophoresis</i> , 2009, 30, 831-838.	1.3	5
149	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.	2.5	5
150	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.	1.5	5
151	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, .	1.1	5
152	Isotope-induced elastic scattering of optical phonons in individual suspended single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2011, 99, 093104.	1.5	4
153	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.	2.5	4
154	Ion Desorption from Single-Walled Carbon Nanotubes Induced by Soft X-ray Illumination. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 105104.	0.8	3
155	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.	0.8	3
156	Strain-induced band modulation of thermal phonons in carbon nanotubes. <i>Physical Review B</i> , 2021, 104, .	1.1	3
157	Ultra-high-performance heat spreader based on a graphite architecture with three-dimensional thermal routing. <i>Cell Reports Physical Science</i> , 2021, 2, 100621.	2.8	3
158	Negligible contribution of inter-dot coherent modes to heat conduction in quantum-dot superlattice. <i>Materials Today Physics</i> , 2022, 22, 100601.	2.9	3
159	Control of oscillatory thermocapillary convection with local heating. <i>Journal of Crystal Growth</i> , 2006, 286, 502-511.	0.7	2
160	Modulating temperature dependence of thermal conductivity by nanostructuring. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 120312.	0.8	2
161	Heat diffusion-related damping process in a highly precise coarse-grained model for nonlinear motion of SWCNT. <i>Scientific Reports</i> , 2021, 11, 563.	1.6	2
162	Optimized Tamm-plasmon structure by Differential Evolution algorithm for single and dual peaks hot-electron photodetection. <i>Optical Materials</i> , 2021, 113, 110857.	1.7	2

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163	Synergistic phonon scattering in epitaxial silicon multilayers with germanium nanodot inclusions. Physical Review B, 2021, 104, .	1.1	2
164	Molecular Dynamics Simulations of Diffusive-Ballistic Heat Conduction in Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2007, 1022, 1.	0.1	1
165	Report on 6th U.S.â€™Japan Joint Seminar on Nanoscale Transport Phenomenaâ€™Science and Engineering. Nanoscale and Microscale Thermophysical Engineering, 2008, 12, 273-293.	1.4	1
166	Scattering of Monatomic Gas Molecules on Vertically Aligned Single-Walled Carbon Nanotubes. , 2008, , .		1
167	Thermal Boundary Conduction between a Single-Walled Carbon Nanotube and Surrounding Material(Thermal Engineering). 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 642-649.	0.2	1
168	Magneto-Absorption Spectra from Selected Chirality of Single-Walled Carbon Nanotubes. Journal of Low Temperature Physics, 2010, 159, 267-271.	0.6	1
169	Evaluation of adsorption capacity of single-walled carbon nanotubes for application to micro gas preconcentrators. , 2010, , .		1
170	Understanding decoupling mechanisms of liquid-mixture transport properties through regression analysis with structural perturbation. International Journal of Heat and Mass Transfer, 2017, 105, 12-17.	2.5	1
171	Reduction of interface thermal resistance between TIM and metal surface by tuning wettability. Transactions of the JSME (in Japanese), 2021, 87, 21-00023-21-00023.	0.1	1
172	Descriptors of intrinsic hydrodynamic thermal transport: screening a phonon database in a machine learning approach. Journal of Physics Condensed Matter, 2022, 34, 135702.	0.7	1
173	Vibration sorting of small droplets on hydrophilic surface by asymmetric contact-line friction. , 0, , .		1
174	Experiment on multimode feedback control of non-linear thermocapillary convection in a half-zone liquid bridge. Advances in Space Research, 2005, 36, 57-63.	1.2	0
175	Molecular Dynamics Simulation of a Single-Walled Carbon Nanotube Nucleation from a Catalytic Metal Cluster under Confinement(Thermal Engineering). 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2009, 75, 2060-2067.	0.2	0
176	Scattering Process of Transmitted Gas Molecules Through Vertically Aligned Single-Walled Carbon Nanotube Arrays(<Special Issue>The 1st Symposium on Micro-Nano Engineering). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 1933-1935.	0.2	0
177	Energy accommodation of gas molecules with free-standing films of vertically aligned single-walled carbon nanotubes. , 2011, , .		0
178	Molecular Dynamics of Highly Efficient Flow at the Nanoscale. Journal of the Visualization Society of Japan, 2013, 33, 14-18.	0.0	0
179	Alloy composition of half-Heusler compounds for high thermoelectric performance. Transactions of the JSME (in Japanese), 2015, 81, 14-00652-14-00652.	0.1	0
180	Thermal Conductance Analysis of Sintered Nanostructures from the Viewpoint of Phonon Transport. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2015, 62, 169-174.	0.1	0

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181	Thermal Nanostructure Design by Materials Informatics. Springer Series in Materials Science, 2021, , 153-195.	0.4	0
182	Thermal transport by phonons in thermoelectrics. , 2021, , 23-42.		0
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