

# Li Shi

## List of Publications by Citations

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185  
papers

24,054  
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63  
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154  
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207  
ext. papers

26,957  
ext. citations

7.9  
avg, IF

6.94  
L-index

#	Paper	IF	Citations
185	Progress, challenges, and opportunities in two-dimensional materials beyond graphene. <i>ACS Nano</i> , <b>2013</b> , 7, 2898-926	16.7	3414
184	Thermal transport measurements of individual multiwalled nanotubes. <i>Physical Review Letters</i> , <b>2001</b> , 87, 215502	7.4	2461
183	Two-dimensional phonon transport in supported graphene. <i>Science</i> , <b>2010</b> , 328, 213-6	33.3	1461
182	Thermal conductivity of individual silicon nanowires. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2934-2936	3.4	1342
181	Nanoscale thermal transport. II. 2003-2012. <i>Applied Physics Reviews</i> , <b>2014</b> , 1, 011305	17.3	1050
180	Thermal transport in suspended and supported monolayer graphene grown by chemical vapor deposition. <i>Nano Letters</i> , <b>2010</b> , 10, 1645-51	11.5	940
179	Emerging challenges and materials for thermal management of electronics. <i>Materials Today</i> , <b>2014</b> , 17, 163-174	21.8	897
178	Thermal conductance and thermopower of an individual single-wall carbon nanotube. <i>Nano Letters</i> , <b>2005</b> , 5, 1842-6	11.5	697
177	Janus Monolayer Transition-Metal Dichalcogenides. <i>ACS Nano</i> , <b>2017</b> , 11, 8192-8198	16.7	584
176	Measuring Thermal and Thermoelectric Properties of One-Dimensional Nanostructures Using a Microfabricated Device. <i>Journal of Heat Transfer</i> , <b>2003</b> , 125, 881-888	1.8	557
175	Thermal conductivity and phonon transport in suspended few-layer hexagonal boron nitride. <i>Nano Letters</i> , <b>2013</b> , 13, 550-4	11.5	454
174	Enhanced thermal conductivity of phase change materials with ultrathin-graphite foams for thermal energy storage. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1185-1192	35.4	410
173	Raman measurements of thermal transport in suspended monolayer graphene of variable sizes in vacuum and gaseous environments. <i>ACS Nano</i> , <b>2011</b> , 5, 321-8	16.7	391
172	Ultrathin graphite foam: a three-dimensional conductive network for battery electrodes. <i>Nano Letters</i> , <b>2012</b> , 12, 2446-51	11.5	360
171	Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 559	35.4	311
170	Mammalian cells preferentially internalize hydrogel nanodiscs over nanorods and use shape-specific uptake mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 17247-52	11.5	286
169	Thermal transport in three-dimensional foam architectures of few-layer graphene and ultrathin graphite. <i>Nano Letters</i> , <b>2012</b> , 12, 2959-64	11.5	285

168	Activating Inert Basal Planes of MoS <sub>2</sub> for Hydrogen Evolution Reaction through the Formation of Different Intrinsic Defects. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4390-4396	9.6	277
167	High thermal conductivity of chain-oriented amorphous polythiophene. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 384-90	28.7	247
166	Continuous Carbon Nanotube-Ultrathin Graphite Hybrid Foams for Increased Thermal Conductivity and Suppressed Subcooling in Composite Phase Change Materials. <i>ACS Nano</i> , <b>2015</b> , 9, 11699-707	16.7	232
165	Designer nanoparticles: incorporating size, shape and triggered release into nanoscale drug carriers. <i>Expert Opinion on Drug Delivery</i> , <b>2010</b> , 7, 479-95	8	231
164	Influence of polymeric residue on the thermal conductivity of suspended bilayer graphene. <i>Nano Letters</i> , <b>2011</b> , 11, 1195-200	11.5	217
163	Nanoimprint lithography based fabrication of shape-specific, enzymatically-triggered smart nanoparticles. <i>Journal of Controlled Release</i> , <b>2008</b> , 125, 263-72	11.7	199
162	Thermal Transport Mechanisms at Nanoscale Point Contacts. <i>Journal of Heat Transfer</i> , <b>2002</b> , 124, 329-337.8		185
161	Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , <b>2018</b> , 361, 582-585	33.3	185
160	Thermoelectric properties of individual electrodeposited bismuth telluride nanowires. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 133109	3.4	180
159	Managing heat for electronics. <i>Materials Today</i> , <b>2005</b> , 8, 30-35	21.8	177
158	Searching for Highly Active Catalysts for Hydrogen Evolution Reaction Based on O-Terminated MXenes through a Simple Descriptor. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 9026-9032	9.6	165
157	Significant electronic thermal transport in the conducting polymer poly(3,4-ethylenedioxythiophene). <i>Advanced Materials</i> , <b>2015</b> , 27, 2101-6	24	158
156	Thermal and Structural Characterizations of Individual Single-, Double-, and Multi-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 3918-3925	15.6	144
155	Profiling the thermoelectric power of semiconductor junctions with nanometer resolution. <i>Science</i> , <b>2004</b> , 303, 816-8	33.3	143
154	Thermal transport in graphene. <i>Solid State Communications</i> , <b>2012</b> , 152, 1321-1330	1.6	142
153	Scanning thermal microscopy of carbon nanotubes using batch-fabricated probes. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 4295-4297	3.4	141
152	Phonon backscattering and thermal conductivity suppression in sawtooth nanowires. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 083112	3.4	138
151	Thermoelectric and structural characterizations of individual electrodeposited bismuth telluride nanowires. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 104318	2.5	136

150	Thermal Contact Resistance and Thermal Conductivity of a Carbon Nanofiber. <i>Journal of Heat Transfer</i> , <b>2006</b> , 128, 234-239	1.8	131
149	Determination of transport properties in chromium disilicide nanowires via combined thermoelectric and structural characterizations. <i>Nano Letters</i> , <b>2007</b> , 7, 1649-54	11.5	118
148	Basal-plane thermal conductivity of few-layer molybdenum disulfide. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 201902	3.4	115
147	Phonon-interface scattering in multilayer graphene on an amorphous support. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16321-6	11.5	113
146	A three-dimensional dielectrophoretic particle focusing channel for microcytometry applications. <i>Journal of Microelectromechanical Systems</i> , <b>2005</b> , 14, 480-487	2.5	113
145	Thermal conductivities of individual tin dioxide nanobelts. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2638-2640	3.4	112
144	Integration of metal oxide nanobelts with microsystems for nerve agent detection. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 063101	3.4	112
143	Mesoscopic thermal and thermoelectric measurements of individual carbon nanotubes. <i>Solid State Communications</i> , <b>2003</b> , 127, 181-186	1.6	111
142	Thermal and Thermoelectric Transport in Nanostructures and Low-Dimensional Systems. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2012</b> , 16, 79-116	3.7	108
141	Effects of surface band bending and scattering on thermoelectric transport in suspended bismuth telluride nanoplates. <i>Nano Letters</i> , <b>2013</b> , 13, 5316-22	11.5	106
140	Mesoscopic thermal transport and energy dissipation in carbon nanotubes. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 323, 67-70	2.8	101
139	Recent advances in oxidation and degradation mechanisms of ultrathin 2D materials under ambient conditions and their passivation strategies. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4291-4312	13	100
138	Four-probe measurements of the in-plane thermoelectric properties of nanofilms. <i>Review of Scientific Instruments</i> , <b>2007</b> , 78, 034901	1.7	96
137	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. <i>Science</i> , <b>2020</b> , 367, 555-559	33.3	90
136	Thermal conductivity of indium arsenide nanowires with wurtzite and zinc blende phases. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	89
135	Experimental and theoretical analysis of an aluminum foam enhanced phase change thermal storage unit. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 82, 273-281	4.9	88
134	Effect of shape, size, and aspect ratio on nanoparticle penetration and distribution inside solid tissues using 3D spheroid models. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 2269-80	10.1	88
133	Thermal probing of energy dissipation in current-carrying carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 104306	2.5	86

132	Design and batch fabrication of probes for sub-100 nm scanning thermal microscopy. <i>Journal of Microelectromechanical Systems</i> , <b>2001</b> , 10, 370-378	2.5	83
131	Optical measurement of thermal transport in suspended carbon nanotubes. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 063119	3.4	80
130	Thermoelectric transport across graphene/hexagonal boron nitride/graphene heterostructures. <i>Nano Research</i> , <b>2015</b> , 8, 666-672	10	76
129	Temperature and Thickness Dependences of the Anisotropic In-Plane Thermal Conductivity of Black Phosphorus. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603756	24	75
128	Comparison study of catalyst nanoparticle formation and carbon nanotube growth: Support effect. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 124310	2.5	75
127	Magnetic field-induced helical mode and topological transitions in a topological insulator nanoribbon. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 345-51	28.7	73
126	Thermal conductivity suppression in bismuth nanowires. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 034310	2.5	73
125	Measurement and analysis of thermopower and electrical conductivity of an indium antimonide nanowire from a vapor-liquid-solid method. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 023706	2.5	73
124	In-plane thermal conductivity of disordered layered WSe <sub>2</sub> and (W) <sub>x</sub> (WSe <sub>2</sub> ) <sub>y</sub> superlattice films. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 171912	3.4	64
123	A eutectic mixture of galactitol and mannitol as a phase change material for latent heat storage. <i>Energy Conversion and Management</i> , <b>2015</b> , 103, 139-146	10.6	63
122	Optical absorption and thermal transport of individual suspended carbon nanotube bundles. <i>Nano Letters</i> , <b>2009</b> , 9, 590-4	11.5	63
121	Approaching the Minimum Thermal Conductivity in Rhenium-Substituted Higher Manganese Silicides. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400452	21.8	62
120	Template-Grown MoS <sub>2</sub> Nanowires Catalyze the Hydrogen Evolution Reaction: Ultralow Kinetic Barriers with High Active Site Density. <i>ACS Catalysis</i> , <b>2017</b> , 7, 5097-5102	13.1	61
119	Thermal interface conductance across a graphene/hexagonal boron nitride heterojunction. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 081908	3.4	61
118	Evaluating Broader Impacts of Nanoscale Thermal Transport Research. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2015</b> , 19, 127-165	3.7	60
117	Low-frequency acoustic phonon temperature distribution in electrically biased graphene. <i>Nano Letters</i> , <b>2011</b> , 11, 85-90	11.5	57
116	Twisting phonons in complex crystals with quasi-one-dimensional substructures. <i>Nature Communications</i> , <b>2015</b> , 6, 6723	17.4	52
115	Swelling behavior of nanoscale, shape- and size-specific, hydrogel particles fabricated using imprint lithography. <i>Soft Matter</i> , <b>2011</b> , 7, 2879	3.6	46

114	Gate-tunable and thickness-dependent electronic and thermoelectric transport in few-layer MoS <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 134305	2.5	46
113	Optical Generation and Detection of Local Nonequilibrium Phonons in Suspended Graphene. <i>Nano Letters</i> , <b>2017</b> , 17, 2049-2056	11.5	45
112	Direct observation of heat dissipation in individual suspended carbon nanotubes using a two-laser technique. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 044328	2.5	45
111	Effect of growth base pressure on the thermoelectric properties of indium antimonide nanowires. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 025406	3	44
110	Suppressing the bipolar contribution to the thermoelectric properties of Mg <sub>2</sub> Si <sub>0.4</sub> Sn <sub>0.6</sub> by Ge substitution. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 155103	2.5	42
109	Effects of ball milling on microstructures and thermoelectric properties of higher manganese silicides. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 641, 30-36	5.7	41
108	Thermal and thermoelectric transport measurements of an individual boron arsenide microstructure. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 201905	3.4	41
107	Thermoelectric Properties of Undoped High Purity Higher Manganese Silicides Grown by Chemical Vapor Transport. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5097-5104	9.6	40
106	On errors in thermal conductivity measurements of suspended and supported nanowires using micro-thermometer devices from low to high temperatures. <i>Measurement Science and Technology</i> , <b>2011</b> , 22, 015103	2	40
105	Unique size and shape-dependent uptake behaviors of non-spherical nanoparticles by endothelial cells due to a shearing flow. <i>Journal of Controlled Release</i> , <b>2017</b> , 245, 170-176	11.7	37
104	Effects of (Al,Ge) double doping on the thermoelectric properties of higher manganese silicides. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 173705	2.5	37
103	Enhanced thermoelectric power factor of Re-substituted higher manganese silicides with small islands of MnSi secondary phase. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10500-10508	7.1	36
102	In-plane thermal and thermoelectric properties of misfit-layered [(PbSe) <sub>0.99</sub> ] <sub>x</sub> (WSe <sub>2</sub> ) <sub>x</sub> superlattice thin films. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 181908	3.4	36
101	Magnons and Phonons Optically Driven out of Local Equilibrium in a Magnetic Insulator. <i>Physical Review Letters</i> , <b>2016</b> , 117, 107202	7.4	35
100	Gate tunable relativistic mass and Berry's phase in topological insulator nanoribbon field effect devices. <i>Scientific Reports</i> , <b>2015</b> , 5, 8452	4.9	35
99	Scanning Thermal Wave Microscopy (STWM). <i>Journal of Heat Transfer</i> , <b>2003</b> , 125, 156-163	1.8	35
98	Model of Heat Exchangers for Waste Heat Recovery from Diesel Engine Exhaust for Thermoelectric Power Generation. <i>Journal of Electronic Materials</i> , <b>2012</b> , 41, 1290-1297	1.9	34
97	Molecular dynamics simulation of thermal transport at a nanometer scale constriction in silicon. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 074304	2.5	34

96	The effect of gas environment on electrical heating in suspended carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 084307	2.5	33
95	Thermal characterization and sensor applications of one-dimensional nanostructures employing microelectromechanical systems. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 22102-11	3.4	33
94	Reexamination of basal plane thermal conductivity of suspended graphene samples measured by electro-thermal micro-bridge methods. <i>AIP Advances</i> , <b>2015</b> , 5, 053206	1.5	32
93	Scalable imprinting of shape-specific polymeric nanocarriers using a release layer of switchable water solubility. <i>ACS Nano</i> , <b>2012</b> , 6, 2524-31	16.7	32
92	High fidelity finite difference model for exploring multi-parameter thermoelectric generator design space. <i>Applied Energy</i> , <b>2014</b> , 129, 373-383	10.7	30
91	Reexamination of thermal transport measurements of a low-thermal conductance nanowire with a suspended micro-device. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 084903	1.7	29
90	Enhanced thermoelectric cooling at cold junction interfaces. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3006-3008	3.4	29
89	A four-probe thermal transport measurement method for nanostructures. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 044901	1.7	28
88	Thermal Conductivity Measurement of Graphene Exfoliated on Silicon Dioxide. <i>Journal of Heat Transfer</i> , <b>2011</b> , 133,	1.8	28
87	Synthesis and Properties of Turbostratically Disordered, Ultrathin WSe <sub>2</sub> Films. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2750-2756	9.6	28
86	Thermal conductivity of carbon nanotubes grown by catalyst-free chemical vapor deposition in nanopores. <i>Carbon</i> , <b>2019</b> , 145, 195-200	10.4	28
85	Effect of illumination and Se vacancies on fast oxidation of ultrathin gallium selenide. <i>Nanoscale</i> , <b>2018</b> , 10, 12180-12186	7.7	26
84	Effect of supporting layer on growth of carbon nanotubes by thermal chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 183113	3.4	25
83	RECENT DEVELOPMENTS IN MICRO AND NANOSCALE THERMOMETRY. <i>Microscale Thermophysical Engineering</i> , <b>2001</b> , 5, 251-265		25
82	A Reexamination of Phonon Transport Through a Nanoscale Point Contact in Vacuum. <i>Journal of Heat Transfer</i> , <b>2014</b> , 136,	1.8	24
81	One-dimensional electron transport and thermopower in an individual InSb nanowire. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 9651-9657	1.8	24
80	Large Reduction of Hot Spot Temperature in Graphene Electronic Devices with Heat-Spreading Hexagonal Boron Nitride. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11101-11107	9.5	22
79	A comprehensive study of thermoelectric and transport properties of Silicon carbide nanowires. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 184301	2.5	21

78	Thermoelectric Properties of Cold-Pressed Higher Manganese Silicides for Waste Heat Recovery. <i>Journal of Electronic Materials</i> , <b>2012</b> , 41, 1564-1572	1.9	21
77	Cross-Plane Seebeck Coefficient Measurement of Misfit Layered Compounds (SnSe)(TiSe) (n = 1,3,4,5). <i>Nano Letters</i> , <b>2017</b> , 17, 1978-1986	11.5	20
76	Thermodynamic model of a thermal storage air conditioning system with dynamic behavior. <i>Applied Energy</i> , <b>2013</b> , 112, 160-169	10.7	20
75	Three-dimensional modeling of nanoscale Seebeck measurements by scanning thermoelectric microscopy. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 053115	3.4	20
74	THERMAL TRANSPORT MEASUREMENT TECHNIQUES FOR NANOWIRES AND NANOTUBES. <i>Annual Review of Heat Transfer</i> , <b>2013</b> , 16, 101-134	2.7	19
73	Brillouin light scattering spectra as local temperature sensors for thermal magnons and acoustic phonons. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 082401	3.4	18
72	Thermoelectric transport in surface- and antimony-doped bismuth telluride nanoplates. <i>APL Materials</i> , <b>2016</b> , 4, 104810	5.7	17
71	Thermal Conductivity Measurements of Nylon 11-Carbon Nanofiber Nanocomposites. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	16
70	Thermal stability of Mg <sub>2</sub> Si <sub>0.4</sub> Sn <sub>0.6</sub> in inert gases and atomic-layer-deposited Al <sub>2</sub> O <sub>3</sub> thin film as a protective coating. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17726-17731	13	15
69	Thermal conductivity of ZnTe nanowires. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 134314	2.5	15
68	Scattering of phonons by high-concentration isotopic impurities in ultrathin graphite. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	15
67	Thermal resistance of a nanoscale point contact to an indium arsenide nanowire. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 063110	3.4	15
66	Quantitative scanning thermal microscopy of graphene devices on flexible polyimide substrates. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 235101	2.5	15
65	Multimillimeter-sized cubic boron arsenide grown by chemical vapor transport via a tellurium tetraiodide transport agent. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 261901	3.4	14
64	Controlled formation and resistivity scaling of nickel silicide nanolines. <i>Nanotechnology</i> , <b>2009</b> , 20, 085304	3.4	14
63	Temperature dependence of Brillouin light scattering spectra of acoustic phonons in silicon. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 051906	3.4	13
62	Enhanced specific surface area and thermal conductivity in ultrathin graphite foams grown by chemical vapor deposition on sintered nickel powder templates. <i>Carbon</i> , <b>2018</b> , 136, 380-386	10.4	13
61	Enhanced thermoelectric efficiency in topological insulator Bi <sub>2</sub> Te <sub>3</sub> nanoplates via atomic layer deposition-based surface passivation. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 083904	3.4	12



60	Iodine doping effects on the lattice thermal conductivity of oxidized polyacetylene nanofibers. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 194302	2.5	12
59	Enhanced Cross-Plane Thermoelectric Transport of Rotationally Disordered SnSe via Se-Vapor Annealing. <i>Nano Letters</i> , <b>2018</b> , 18, 6876-6881	11.5	12
58	Cross-plane Thermoelectric and Thermionic Transport across Au/h-BN/Graphene Heterostructures. <i>Scientific Reports</i> , <b>2017</b> , 7, 14148	4.9	11
57	Nonresistive heat transport by collective phonon flow. <i>Science</i> , <b>2019</b> , 364, 332-333	33.3	10
56	Weak coupling of pseudoacoustic phonons and magnon dynamics in the incommensurate spin-ladder compound Sr <sub>14</sub> Cu <sub>24</sub> O <sub>41</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	10
55	Thermal Expansion Coefficient and Lattice Anharmonicity of Cubic Boron Arsenide. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	10
54	Micro- and Nanoscale Measurement Methods for Phase Change Heat Transfer on Planar and Structured Surfaces. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2014</b> , 18, 270-287	3.7	10
53	Temperature-dependent Brillouin light scattering spectra of magnons in yttrium iron garnet and permalloy. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	10
52	Numerical Optimization and Power Output Control of a Hot Thermal Battery with Phase Change Material. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 65, 825-843	2.3	10
51	Effects of basal-plane thermal conductivity and interface thermal conductance on the hot spot temperature in graphene electronic devices. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 073104	3.4	9
50	Phonon interaction with ripples and defects in thin layered molybdenum disulfide. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 221902	3.4	9
49	Simulation of a plasmonic tip-terminated scanning nanowire waveguide for molecular imaging. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 193101	3.4	9
48	Micro-Nano Scale Thermal Imaging Using Scanning Probe Microscopy. <i>Nanoscience and Technology</i> , <b>2004</b> , 327-362	0.6	9
47	Pressure-Dependent Behavior of Defect-Modulated Band Structure in Boron Arsenide. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001942	24	9
46	Basal-plane thermal conductivity of nanocrystalline and amorphized thin germanane. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 131907	3.4	9
45	Effects of grain boundaries and defects on anisotropic magnon transport in textured Sr <sub>14</sub> Cu <sub>24</sub> O <sub>41</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	7
44	Localized Mg-vacancy states in the thermoelectric material Mg <sub>2</sub> Bi <sub>0.4</sub> Sn <sub>0.6</sub> . <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 085104	2.5	7
43	Comparison of four-probe thermal and thermoelectric transport measurements of thin films and nanostructures with microfabricated electro-thermal transducers. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 103002	3	6

42	Thermal and Thermoelectric Measurements of Low Dimensional Nanostructures <b>2003</b> , 77		6
41	Pure Spin Current and Magnon Chemical Potential in a Nonequilibrium Magnetic Insulator. <i>Physical Review X</i> , <b>2020</b> , 10,	9-1	5
40	Glass-like thermal conductivity in nanostructures of a complex anisotropic crystal. <i>Physical Review B</i> , <b>2017</b> , 96,	3-3	5
39	Phonon Transport and Thermoelectricity in Defect-Engineered InAs Nanowires. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1404, 36		5
38	Comment on "Length-dependant thermal conductivity of an individual single-wall carbon nanotube"[Appl. Phys. Lett. 91, 123119 (2007)]. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 206103	3-4	5
37	Monte Carlo Simulation of Phonon Backscattering in a Nanowire <b>2006</b> , 549		5
36	Quantitative thermal probing of devices at sub-100 nm resolution		5
35	Coupling of Spinons with Defects and Phonons in the Spin Chain Compound $\text{Ca}_{2}\text{CuO}_{3}$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 185901	7-4	4
34	Mean Free Path Suppression of Low-Frequency Phonons in SiGe Nanowires. <i>Nano Letters</i> , <b>2020</b> , 20, 8384-8391	4-3	4
33	Scalable Fabrication of Low Elastic Modulus Polymeric Nanocarriers With Controlled Shapes for Diagnostics and Drug Delivery. <i>Journal of Micro and Nano-Manufacturing</i> , <b>2015</b> , 3,	1-3	4
32	Size-Dependent Nanoparticle Margination and Adhesion Propensity in a Microchannel. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2013</b> , 4,		4
31	Combined Thermoelectric and Structure Characterizations of Patterned Nanowires <b>2006</b> ,		4
30	Synthesis and thermal transport properties of high-surface area hexagonal boron nitride foam structures. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 161, 120268	4-9	4
29	Effects of Impurities on the Thermal and Electrical Transport Properties of Cubic Boron Arsenide. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6974-6982	9-6	4
28	Transient Hydrodynamic Lattice Cooling by Picosecond Laser Irradiation of Graphite. <i>Physical Review Letters</i> , <b>2021</b> , 127, 085901	7-4	4
27	A microsphere coupler for a nanowire waveguide plasmonic probe for molecular imaging. <i>Nanotechnology</i> , <b>2011</b> , 22, 045203	3-4	3
26	Scanning Thermal and Thermoelectric Microscopy <b>2005</b> , 183-205		3
25	Raman Linewidth Contributions from Four-Phonon and Electron-Phonon Interactions in Graphene.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 045901	7-4	3

24	Enhanced Low-Temperature Thermoelectric Performance in (PbSe)(VSe) Heterostructures due to Highly Correlated Electrons in Charge Density Waves. <i>Nano Letters</i> , <b>2020</b> , 20, 8008-8014	11.5	3
23	Synthesis and Magnon Thermal Transport Properties of Spin Ladder Sr14Cu24O41 Microstructures. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001637	15.6	2
22	Thermoelectric measurements of high-resistance Janus monolayer transition-metal dichalcogenide. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 105110	1.7	2
21	Size-Dependent Nanoparticle Uptake by Endothelial Cells in a Capillary Flow System. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2015</b> , 6,		2
20	The Effect of Nanoparticle Size on Margination and Adhesion Propensity in Artificial Micro-Capillaries <b>2012</b> ,		2
19	Molecular Dynamics Simulation of Thermal Transport at Nanometer Size Point Contacts on a Planar Silicon Substrate <b>2005</b> , 389		2
18	A differential thin film resistance thermometry method for peak thermal conductivity measurements of high thermal conductivity crystals. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 094901	1.7	2
17	Four-Probe Measurement of Thermal Transport in Suspended Few-Layer Graphene With Polymer Residue. <i>Journal of Heat Transfer</i> , <b>2019</b> , 141,	1.8	1
16	Development of an Analytical Design Tool for Monolithic Emission Control Catalysts and Application to Nano-Textured Substrate System. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2014</b> , 6,	1.9	1
15	Report on the Seventh U.S. Japan Joint Seminar on Nanoscale Transport Phenomena Science and Engineering. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2013</b> , 17, 25-49	3.7	1
14	Thermal Conductivity Measurement of Graphene Exfoliated on Silicon Dioxide <b>2010</b> ,		1
13	Thermal Transport Measurements of Bilayer and Few-Layer Graphene Supported on Silicon Dioxide <b>2011</b> ,		1
12	Report on 6th U.S. Japan Joint Seminar on Nanoscale Transport Phenomena Science and Engineering. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2008</b> , 12, 273-293	3.7	1
11	Characterization of Heat Propagation along Single Tin Dioxide Nanobelt using the Thermoreflectance Method. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1022, 1		1
10	Thermal Contact Resistance and Thermal Conductivity of a Carbon Nanofiber <b>2005</b> , 197		1
9	In-plane Thermoelectric Properties of Epitaxial InGaAlAs Films embedded with ErAs Nanoparticles <b>2008</b> ,		1
8	Electronic structure of cubic boron arsenide probed by scanning tunneling spectroscopy. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 31LT01	3	1
7	Reexamination of hydrodynamic phonon transport in thin graphite. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 075104	2.5	0

6 Thermal and Thermoelectric Characterization of Individual Nanostructures and Thin Films **2017**, 410-434

5 Support Controlled Catalytic Chemical Vapor Deposition of Carbon Nanotubes. *Materials Research Society Symposia Proceedings*, **2007**, 1017, 7

4 A Micro-Flow Cytometer Based on Dielectrophoretic Particle Focusing **2003**, 545

3 Scanning Probe Microscopy of Carbon Nanotube Electronic Devices **2004**, 87

2 Structural and Synthetic Modification of Graphitic Foams and Dendritic Graphitic Foams for Thermal Management. *Physica Status Solidi (A) Applications and Materials Science*, **2022**, 219, 2100576 <sup>1.6</sup>

1 Bio-MEMS Devices in Cell Manipulation **2006**, 237-262