

# Li Shi

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4981884/li-shi-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

185  
papers

24,054  
citations

63  
h-index

154  
g-index

207  
ext. papers

26,957  
ext. citations

7.9  
avg, IF

6.94  
L-index

#	Paper	IF	Citations
185	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
184	Structural and Synthetic Modification of Graphitic Foams and Dendritic Graphitic Foams for Thermal Management. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2022</b> , 219, 2100576	1.6	
183	Reexamination of hydrodynamic phonon transport in thin graphite. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 075104	2.5	0
182	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
181	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
180	Transient Hydrodynamic Lattice Cooling by Picosecond Laser Irradiation of Graphite. <i>Physical Review Letters</i> , <b>2021</b> , 127, 085901	7.4	4
179	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
178	Mean Free Path Suppression of Low-Frequency Phonons in SiGe Nanowires. <i>Nano Letters</i> , <b>2020</b> , 20, 8384-8391	4.3	4
177	Pure Spin Current and Magnon Chemical Potential in a Nonequilibrium Magnetic Insulator. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	5
176	Synthesis and Magnon Thermal Transport Properties of Spin Ladder Sr <sub>14</sub> Cu <sub>24</sub> O <sub>41</sub> Microstructures. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001637	15.6	2
175	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. <i>Science</i> , <b>2020</b> , 367, 555-559	33.3	90
174	Pressure-Dependent Behavior of Defect-Modulated Band Structure in Boron Arsenide. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001942	24	9
173	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
172	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
171	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
170	Coupling of Spinons with Defects and Phonons in the Spin Chain Compound Ca <sub>2</sub> CuO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2019</b> , 122, 185901	7.4	4
169	Nonresistive heat transport by collective phonon flow. <i>Science</i> , <b>2019</b> , 364, 332-333	33.3	10

168	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
167	Phonon interaction with ripples and defects in thin layered molybdenum disulfide. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 221902	3.4	9
166	Thermal Expansion Coefficient and Lattice Anharmonicity of Cubic Boron Arsenide. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	10
165	Thermoelectric measurements of high-resistance Janus monolayer transition-metal dichalcogenide. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 105110	1.7	2
164	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
163	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
162	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
161	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
160	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
159	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
158	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
157	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
156	Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , <b>2018</b> , 361, 582-585	33.3	185
155	Optical Generation and Detection of Local Nonequilibrium Phonons in Suspended Graphene. <i>Nano Letters</i> , <b>2017</b> , 17, 2049-2056	11.5	45
154	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
153	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
152	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
151	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

150	Cross-plane Thermoelectric and Thermionic Transport across Au/h-BN/Graphene Heterostructures. <i>Scientific Reports</i> , <b>2017</b> , 7, 14148	4.9	11
149	Effects of grain boundaries and defects on anisotropic magnon transport in textured Sr14Cu24O41. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	7
148	Janus Monolayer Transition-Metal Dichalcogenides. <i>ACS Nano</i> , <b>2017</b> , 11, 8192-8198	16.7	584
147	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
146	Thermal and Thermoelectric Characterization of Individual Nanostructures and Thin Films <b>2017</b> , 410-434		
145	Temperature and Thickness Dependences of the Anisotropic In-Plane Thermal Conductivity of Black Phosphorus. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603756	2.4	75
144	Glass-like thermal conductivity in nanostructures of a complex anisotropic crystal. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	5
143	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
142	Thermal stability of Mg2Si0.4Sn0.6 in inert gases and atomic-layer-deposited Al2O3 thin film as a protective coating. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17726-17731	13	15
141	Weak coupling of pseudoacoustic phonons and magnon dynamics in the incommensurate spin-ladder compound Sr14Cu24O41. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	10
140	Activating Inert Basal Planes of MoS2 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
139	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
138	Gate-tunable and thickness-dependent electronic and thermoelectric transport in few-layer MoS2. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 134305	2.5	46
137	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
136	Thermal and thermoelectric transport measurements of an individual boron arsenide microstructure. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 201905	3.4	41
135	Thermoelectric transport in surface- and antimony-doped bismuth telluride nanoplates. <i>APL Materials</i> , <b>2016</b> , 4, 104810	5.7	17
134	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
133	Basal-plane thermal conductivity of nanocrystalline and amorphized thin germanane. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 131907	3.4	9

132	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
131	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
130	A four-probe thermal transport measurement method for nanostructures. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 044901	1.7	28
129	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
128	Twisting phonons in complex crystals with quasi-one-dimensional substructures. <i>Nature Communications</i> , <b>2015</b> , 6, 6723	17.4	52
127	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
126	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
125	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
124	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
123	Thermoelectric transport across graphene/hexagonal boron nitride/graphene heterostructures. <i>Nano Research</i> , <b>2015</b> , 8, 666-672	10	76
122	Scattering of phonons by high-concentration isotopic impurities in ultrathin graphite. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	15
121	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
120	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
119	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
118	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
117	Evaluating Broader Impacts of Nanoscale Thermal Transport Research. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2015</b> , 19, 127-165	3.7	60
116	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
115	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

114	Significant electronic thermal transport in the conducting polymer poly(3,4-ethylenedioxythiophene). <i>Advanced Materials</i> , <b>2015</b> , 27, 2101-6	24	158
113	Nanoscale thermal transport. II. 2003–2012. <i>Applied Physics Reviews</i> , <b>2014</b> , 1, 011305	17.3	1050
112	High thermal conductivity of chain-oriented amorphous polythiophene. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 384-90	28.7	247
111	Thermal interface conductance across a graphene/hexagonal boron nitride heterojunction. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 081908	3.4	61
110	Approaching the Minimum Thermal Conductivity in Rhenium-Substituted Higher Manganese Silicides. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400452	21.8	62
109	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
108	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
107	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
106	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
105	Emerging challenges and materials for thermal management of electronics. <i>Materials Today</i> , <b>2014</b> , 17, 163-174	21.8	897
104	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
103	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
102	Basal-plane thermal conductivity of few-layer molybdenum disulfide. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 201902	3.4	115
101	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
100	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
99	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
98	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
97	Thermal conductivity of ZnTe nanowires. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 134314	2.5	15

96	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
95	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
94	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
93	Progress, challenges, and opportunities in two-dimensional materials beyond graphene. <i>ACS Nano</i> , <b>2013</b> , 7, 2898-926	16.7	3414
92	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
91	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
90	Size-Dependent Nanoparticle Margination and Adhesion Propensity in a Microchannel. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2013</b> , 4,		4
89	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
88	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
87	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
86	THERMAL TRANSPORT MEASUREMENT TECHNIQUES FOR NANOWIRES AND NANOTUBES. <i>Annual Review of Heat Transfer</i> , <b>2013</b> , 16, 101-134	2.7	19
85	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
84	Thermal transport in graphene. <i>Solid State Communications</i> , <b>2012</b> , 152, 1321-1330	1.6	142
83	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
82	Ultrathin graphite foam: a three-dimensional conductive network for battery electrodes. <i>Nano Letters</i> , <b>2012</b> , 12, 2446-51	11.5	360
81	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
80	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
79	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

78	Phonon Transport and Thermoelectricity in Defect-Engineered InAs Nanowires. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1404, 36		5
77	The Effect of Nanoparticle Size on Margination and Adhesion Propensity in Artificial Micro-Capillaries <b>2012</b> ,		2
76	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
75	Thermal Conductivity Measurement of Graphene Exfoliated on Silicon Dioxide. <i>Journal of Heat Transfer</i> , <b>2011</b> , 133,	1.8	28
74	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
73	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
72	Thermal conductivity of indium arsenide nanowires with wurtzite and zinc blende phases. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	89
71	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
70	Low-frequency acoustic phonon temperature distribution in electrically biased graphene. <i>Nano Letters</i> , <b>2011</b> , 11, 85-90	11.5	57
69	A microsphere coupler for a nanowire waveguide plasmonic probe for molecular imaging. <i>Nanotechnology</i> , <b>2011</b> , 22, 045203	3.4	3
68	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
67	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
66	Thermal Transport Measurements of Bilayer and Few-Layer Graphene Supported on Silicon Dioxide <b>2011</b> ,		1
65	Thermal Conductivity Measurement of Graphene Exfoliated on Silicon Dioxide <b>2010</b> ,		1
64	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
63	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
62	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
61	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

60	Two-dimensional phonon transport in supported graphene. <i>Science</i> , <b>2010</b> , 328, 213-6	33.3	1461
59	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
58	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
57	Thermal Conductivity Measurements of Nylon 11-Carbon Nanofiber Nanocomposites. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	16
56	Controlled formation and resistivity scaling of nickel silicide nanolines. <i>Nanotechnology</i> , <b>2009</b> , 20, 085304	4.4	14
55	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
54	Optical absorption and thermal transport of individual suspended carbon nanotube bundles. <i>Nano Letters</i> , <b>2009</b> , 9, 590-4	11.5	63
53	Thermal probing of energy dissipation in current-carrying carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 104306	2.5	86
52	Thermal conductivity suppression in bismuth nanowires. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 034310	2.5	73
51	Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 559	35.4	311
50	Thermoelectric and structural characterizations of individual electrodeposited bismuth telluride nanowires. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 104318	2.5	136
49	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
48	Phonon backscattering and thermal conductivity suppression in sawtooth nanowires. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 083112	3.4	138
47	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
46	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
45	Optical measurement of thermal transport in suspended carbon nanotubes. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 063119	3.4	80
44	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
43	In-plane Thermoelectric Properties of Epitaxial InGaAlAs Films embedded with ErAs Nanoparticles <b>2008</b> ,		1

42	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
41	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
40	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
39	Support Controlled Catalytic Chemical Vapor Deposition of Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1017, 7		
38	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
37	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
36	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
35	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
34	Monte Carlo Simulation of Phonon Backscattering in a Nanowire <b>2006</b> , 549		5
33	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
32	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
31	Combined Thermoelectric and Structure Characterizations of Patterned Nanowires <b>2006</b> ,		4
30	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
29	Bio-MEMS Devices in Cell Manipulation <b>2006</b> , 237-262		
28	Thermoelectric properties of individual electrodeposited bismuth telluride nanowires. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 133109	3.4	180
27	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
26	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
25	Thermal conductance and thermopower of an individual single-wall carbon nanotube. <i>Nano Letters</i> , <b>2005</b> , 5, 1842-6	11.5	697

24	Molecular Dynamics Simulation of Thermal Transport at Nanometer Size Point Contacts on a Planar Silicon Substrate <b>2005</b> , 389		2
23	Thermal Contact Resistance and Thermal Conductivity of a Carbon Nanofiber <b>2005</b> , 197		1
22	Managing heat for electronics. <i>Materials Today</i> , <b>2005</b> , 8, 30-35	21.8	177
21	Integration of metal oxide nanobelts with microsystems for nerve agent detection. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 063101	3.4	112
20	Three-dimensional modeling of nanoscale Seebeck measurements by scanning thermoelectric microscopy. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 053115	3.4	20
19	Scanning Thermal and Thermoelectric Microscopy <b>2005</b> , 183-205		3
18	Scanning Probe Microscopy of Carbon Nanotube Electronic Devices <b>2004</b> , 87		
17	Thermal conductivities of individual tin dioxide nanobelts. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2638-2640	3.4	112
16	Profiling the thermoelectric power of semiconductor junctions with nanometer resolution. <i>Science</i> , <b>2004</b> , 303, 816-8	33.3	143
15	Micro-Nano Scale Thermal Imaging Using Scanning Probe Microscopy. <i>Nanoscience and Technology</i> , <b>2004</b> , 327-362	0.6	9
14	A Micro-Flow Cytometer Based on Dielectrophoretic Particle Focusing <b>2003</b> , 545		
13	Thermal and Thermoelectric Measurements of Low Dimensional Nanostructures <b>2003</b> , 77		6
12	Mesoscopic thermal and thermoelectric measurements of individual carbon nanotubes. <i>Solid State Communications</i> , <b>2003</b> , 127, 181-186	1.6	111
11	Thermal conductivity of individual silicon nanowires. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2934-2936	3.4	1342
10	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
9	Scanning Thermal Wave Microscopy (STWM). <i>Journal of Heat Transfer</i> , <b>2003</b> , 125, 156-163	1.8	35
8	Mesoscopic thermal transport and energy dissipation in carbon nanotubes. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 323, 67-70	2.8	101
7	Enhanced thermoelectric cooling at cold junction interfaces. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3006-3008	3.4	29

6	Thermal Transport Mechanisms at Nanoscale Point Contacts. <i>Journal of Heat Transfer</i> , <b>2002</b> , 124, 329-337.8	185
5	Thermal transport measurements of individual multiwalled nanotubes. <i>Physical Review Letters</i> , <b>2001</b> , 87, 215502	7.4 2461
4	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
3	RECENT DEVELOPMENTS IN MICRO AND NANOSCALE THERMOMETRY. <i>Microscale Thermophysical Engineering</i> , <b>2001</b> , 5, 251-265	25
2	Scanning thermal microscopy of carbon nanotubes using batch-fabricated probes. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 4295-4297	3.4 141
1	Quantitative thermal probing of devices at sub-100 nm resolution	5