

Timothy S. Fisher

List of Publications by Year in descending order

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410
papers

13,097
citations

23500

58
h-index

33814

99
g-index

422
all docs

422
docs citations

422
times ranked

14016
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019, 363, 723-727.	6.0	429
2	Enhancement of thermal interface materials with carbon nanotube arrays. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 1658-1666.	2.5	426
3	Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , 2009, 2, 559.	15.6	348
4	A Review of Graphene-Based Electrochemical Microsupercapacitors. <i>Electroanalysis</i> , 2014, 26, 30-51.	1.5	317
5	Graphene-based hybrid materials and devices for biosensing. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 1352-1360.	6.6	267
6	Effects of carbon nanotube arrays on nucleate pool boiling. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 4023-4038.	2.5	260
7	Electrochemical Biosensor of Nanocube-Augmented Carbon Nanotube Networks. <i>ACS Nano</i> , 2009, 3, 37-44.	7.3	242
8	The Atomistic Green's Function Method: An Efficient Simulation Approach for Nanoscale Phonon Transport. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2007, 51, 333-349.	0.6	240
9	3-Omega Measurements of Vertically Oriented Carbon Nanotubes on Silicon. <i>Journal of Heat Transfer</i> , 2006, 128, 1109-1113.	1.2	212
10	Effects of carbon nanotube coating on flow boiling in a micro-channel. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3805-3817.	2.5	212
11	Photoacoustic characterization of carbon nanotube array thermal interfaces. <i>Journal of Applied Physics</i> , 2007, 101, 054313.	1.1	208
12	Nanostructuring Platinum Nanoparticles on Multilayered Graphene Petal Nanosheets for Electrochemical Biosensing. <i>Advanced Functional Materials</i> , 2012, 22, 3399-3405.	7.8	199
13	MnO ₂ -coated graphitic petals for supercapacitor electrodes. <i>Journal of Power Sources</i> , 2013, 227, 254-259.	4.0	195
14	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. <i>Carbon</i> , 2015, 93, 659-670.	5.4	182
15	Simulation of Interfacial Phonon Transport in Si-Ge Heterostructures Using an Atomistic Green's Function Method. <i>Journal of Heat Transfer</i> , 2007, 129, 483-491.	1.2	179
16	Hyperbolically Patterned 3D Graphene Metamaterial with Negative Poisson's Ratio and Superelasticity. <i>Advanced Materials</i> , 2016, 28, 2229-2237.	11.1	178
17	Kinetics of Ru-catalyzed sodium borohydride hydrolysis. <i>Journal of Power Sources</i> , 2007, 164, 772-781.	4.0	172
18	A Review of Heat Transfer Issues in Hydrogen Storage Technologies. <i>Journal of Heat Transfer</i> , 2005, 127, 1391-1399.	1.2	164

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19	Bioinspired leaves-on-branchlet hybrid carbon nanostructure for supercapacitors. <i>Nature Communications</i> , 2018, 9, 790.	5.8	154
20	Efficient thermal management of Li-ion batteries with a passive interfacial thermal regulator based on a shape memory alloy. <i>Nature Energy</i> , 2018, 3, 899-906.	19.8	154
21	Hierarchical Ni-Co Hydroxide Petals on Mechanically Robust Graphene Petal Foam for High-Energy Asymmetric Supercapacitors. <i>Advanced Functional Materials</i> , 2016, 26, 5460-5470.	7.8	151
22	Graphitic Petal Electrodes for All-Solid-State Flexible Supercapacitors. <i>Advanced Energy Materials</i> , 2014, 4, 1300515.	10.2	147
23	Ionic winds for locally enhanced cooling. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	145
24	Increased real contact in thermal interfaces: A carbon nanotube/foil material. <i>Applied Physics Letters</i> , 2007, 90, 093513.	1.5	144
25	Mechanism of thermal conductivity reduction in few-layer graphene. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	135
26	Enhancement of external forced convection by ionic wind. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 6047-6053.	2.5	131
27	Extraordinary Sensitivity of the Electronic Structure and Properties of Single-Walled Carbon Nanotubes to Molecular Charge-Transfer. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13053-13056.	1.5	128
28	Contact mechanics and thermal conductance of carbon nanotube array interfaces. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3490-3503.	2.5	127
29	Structural and Biochemical Characterization of the Wild Type PCSK9-EGF(AB) Complex and Natural Familial Hypercholesterolemia Mutants. <i>Journal of Biological Chemistry</i> , 2009, 284, 1313-1323.	1.6	112
30	Multifunctional Solar Waterways: Plasma-Enabled Self-Cleaning Nanoarchitectures for Energy-Efficient Desalination. <i>Advanced Energy Materials</i> , 2019, 9, 1901286.	10.2	109
31	Plasma-grown graphene petals templating Ni-Co-Mn hydroxide nanoneedles for high-rate and long-cycle-life pseudocapacitive electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22940-22948.	5.2	101
32	Heat of reaction measurements of sodium borohydride alcoholysis and hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 2292-2298.	3.8	99
33	Parametric study of synthesis conditions in plasma-enhanced CVD of high-quality single-walled carbon nanotubes. <i>Carbon</i> , 2006, 44, 10-18.	5.4	98
34	A metallization and bonding approach for high performance carbon nanotube thermal interface materials. <i>Nanotechnology</i> , 2010, 21, 445705.	1.3	95
35	A Proprotein Convertase Subtilisin-like/Kexin Type 9 (PCSK9) C-terminal Domain Antibody Antigen-binding Fragment Inhibits PCSK9 Internalization and Restores Low Density Lipoprotein Uptake. <i>Journal of Biological Chemistry</i> , 2010, 285, 12882-12891.	1.6	95
36	Biochemical characterization of cholesteryl ester transfer protein inhibitors. <i>Journal of Lipid Research</i> , 2010, 51, 2739-2752.	2.0	92

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37	Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics. <i>Advanced Functional Materials</i> , 2016, 26, 2640-2647.	7.8	90
38	Synthesis of few-layer, large area hexagonal-boron nitride by pulsed laser deposition. <i>Thin Solid Films</i> , 2014, 572, 245-250.	0.8	85
39	Enhanced thermal contact conductance using carbon nanotube array interfaces. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2006, 29, 261-267.	1.4	83
40	Optical properties of ordered vertical arrays of multi-walled carbon nanotubes from FDTD simulations. <i>Optics Express</i> , 2010, 18, 6347.	1.7	82
41	Chaotic mixer improves microarray hybridization. <i>Analytical Biochemistry</i> , 2004, 325, 215-226.	1.1	76
42	Simulation of ion generation and breakdown in atmospheric air. <i>Journal of Applied Physics</i> , 2004, 96, 6066-6072.	1.1	76
43	Thermal transport across metal silicide-silicon interfaces: First-principles calculations and Green's function transport simulations. <i>Physical Review B</i> , 2017, 95, .	1.1	76
44	Carbon Nanotube Coatings for Enhanced Capillary-Fed Boiling from Porous Microstructures. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2012, 16, 1-17.	1.4	75
45	Effects of a carbon nanotube layer on electrical contact resistance between copper substrates. <i>Nanotechnology</i> , 2006, 17, 2294-2303.	1.3	74
46	Heat Transfer Across Metal-Dielectric Interfaces During Ultrafast-Laser Heating. <i>Journal of Heat Transfer</i> , 2012, 134, .	1.2	73
47	Rapid synthesis of few-layer graphene over Cu foil. <i>Carbon</i> , 2012, 50, 1546-1553.	5.4	72
48	Measurement of metal/carbon nanotube contact resistance by adjusting contact length using laser ablation. <i>Nanotechnology</i> , 2008, 19, 125703.	1.3	70
49	Microwave-Assisted Surface Synthesis of a Boron-Carbon-Nitrogen Foam and its Desorption Enthalpy. <i>Advanced Functional Materials</i> , 2012, 22, 3682-3690.	7.8	69
50	Pool Boiling Performance Comparison of Smooth and Sintered Copper Surfaces with and Without Carbon Nanotubes. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2011, 15, 133-150.	1.4	67
51	Flyweight 3D Graphene Scaffolds with Microinterface Barrier-Derived Tunable Thermal Insulation and Flame Retardancy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14232-14241.	4.0	67
52	Simulation of nonequilibrium thermal effects in power LDMOS transistors. <i>Solid-State Electronics</i> , 2003, 47, 1265-1273.	0.8	64
53	Graphene: An effective oxidation barrier coating for liquid and two-phase cooling systems. <i>Corrosion Science</i> , 2013, 69, 5-10.	3.0	64
54	Cross-plane thermal conductivity of (Ti,W)N/(Al,Sc)N metal/semiconductor superlattices. <i>Physical Review B</i> , 2016, 93, .	1.1	64

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55	1kWe sodium borohydride hydrogen generation system. <i>Journal of Power Sources</i> , 2007, 165, 844-853.	4.0	62
56	THE ATOMISTIC GREEN'S FUNCTION METHOD FOR INTERFACIAL PHONON TRANSPORT. <i>Annual Review of Heat Transfer</i> , 2014, 17, 89-145.	0.3	61
57	Dendrimer-assisted controlled growth of carbon nanotubes for enhanced thermal interface conductance. <i>Nanotechnology</i> , 2007, 18, 385303.	1.3	60
58	Scalable Production of Integrated Graphene Nanoarchitectures for Ultrafast Solar-Thermal Conversion and Vapor Generation. <i>Matter</i> , 2019, 1, 1017-1032.	5.0	60
59	Vertical single- and double-walled carbon nanotubes grown from modified porous anodic alumina templates. <i>Nanotechnology</i> , 2006, 17, 3925-3929.	1.3	59
60	Contiguous Petal-like Carbon Nanosheet Outgrowths from Graphite Fibers by Plasma CVD. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 644-648.	4.0	58
61	Electrochemical glutamate biosensing with nanocube and nanosphere augmented single-walled carbon nanotube networks: a comparative study. <i>Journal of Materials Chemistry</i> , 2011, 21, 11224.	6.7	58
62	Graphene nanopetal wire supercapacitors with high energy density and thermal durability. <i>Nano Energy</i> , 2017, 38, 127-136.	8.2	58
63	Simulation of phonon transmission through graphene and graphene nanoribbons with a Greenâ€™s function method. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	55
64	Simulation of phonon transport across a non-polar nanowire junction using an atomistic Greenâ€™s function method. <i>Physical Review B</i> , 2007, 76, .	1.1	53
65	Electrochemical Glucose Biosensor of Platinum Nanospheres Connected by Carbon Nanotubes. <i>Journal of Diabetes Science and Technology</i> , 2010, 4, 312-319.	1.3	52
66	Thermal transport across carbon nanotube-graphene covalent and van der Waals junctions. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	52
67	Effect of Phonon Dispersion on Thermal Conduction Across Si/Ge Interfaces. <i>Journal of Heat Transfer</i> , 2011, 133, .	1.2	51
68	Thermal Effects in Supercapacitors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015, , .	0.2	50
69	Transforming the Fabrication and Biofunctionalization of Gold Nanoelectrode Arrays into Versatile Electrochemical Glucose Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1765-1770.	4.0	48
70	Characterization of Metallically Bonded Carbon Nanotube-Based Thermal Interface Materials Using a High Accuracy 1D Steady-State Technique. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2012, 134, .	1.2	46
71	Effects of Growth Temperature on Carbon Nanotube Array Thermal Interfaces. <i>Journal of Heat Transfer</i> , 2008, 130, .	1.2	45
72	Graphitic Petal Microâ€™Supercapacitor Electrodes for Ultraâ€™High Power Density. <i>Energy Technology</i> , 2014, 2, 897-905.	1.8	45

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73	Electron-phonon coupling and thermal conductance at a metal-semiconductor interface: First-principles analysis. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	45
74	Dynamic Thermal Management for Aerospace Technology: Review and Outlook. <i>Journal of Thermophysics and Heat Transfer</i> , 2017, 31, 86-98.	0.9	45
75	Cooling power and characteristic times of composite heatsinks and insulants. <i>International Journal of Heat and Mass Transfer</i> , 2018, 117, 1205-1215.	2.5	45
76	Experiments on Chimney-Enhanced Free Convection. <i>Journal of Heat Transfer</i> , 1999, 121, 603-609.	1.2	44
77	Thermal Resistance of Nanowire-Plane Interfaces. <i>Journal of Heat Transfer</i> , 2005, 127, 664-668.	1.2	44
78	Photo- and thermionic emission from potassium-intercalated carbon nanotube arrays. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 423-434.	0.6	44
79	Spectral phonon conduction and dominant scattering pathways in graphene. <i>Journal of Applied Physics</i> , 2011, 110, 094312.	1.1	44
80	Heterogeneous wetting surfaces with graphitic petal-decorated carbon nanotubes for enhanced flow boiling. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 380-389.	2.5	44
81	Highly porous three-dimensional carbon nanotube foam as a freestanding anode for a lithium-ion battery. <i>RSC Advances</i> , 2016, 6, 79734-79744.	1.7	44
82	Dendrimer-Templated Fe Nanoparticles for the Growth of Single-Wall Carbon Nanotubes by Plasma-Enhanced CVD. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10636-10644.	1.2	43
83	Atomic Layer Deposition of FeO on Pt(111) by Ferrocene Adsorption and Oxidation. <i>Chemistry of Materials</i> , 2015, 27, 5915-5924.	3.2	43
84	Effects of Carbon Nanotube-Tethered Nanosphere Density on Amperometric Biosensing: Simulation and Experiment. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20896-20904.	1.5	42
85	Thermal and Electrical Energy Transport and Conversion in Nanoscale Electron Field Emission Processes. <i>Journal of Heat Transfer</i> , 2002, 124, 954-962.	1.2	40
86	Carbon Nanotube Array Thermal Interfaces for High-Temperature Silicon Carbide Devices. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2008, 12, 228-237.	1.4	40
87	Free Convection Limits for Pin-Fin Cooling. <i>Journal of Heat Transfer</i> , 1998, 120, 633-640.	1.2	39
88	Athermal jamming of soft frictionless Platonic solids. <i>Physical Review E</i> , 2010, 82, 051304.	0.8	39
89	Nitrogen-doped graphene by microwave plasma chemical vapor deposition. <i>Thin Solid Films</i> , 2013, 528, 269-273.	0.8	38
90	Columnar order in jammed LiFePO ₄ cathodes: ion transport catastrophe and its mitigation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7040.	1.3	37

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91	Synthesis of chemically bonded CNT-graphene heterostructure arrays. RSC Advances, 2012, 2, 8250.	1.7	37
92	Phonon wave effects in the thermal transport of epitaxial TiN/(Al,Sc)N metal/semiconductor superlattices. Journal of Applied Physics, 2017, 121, .	1.1	37
93	Analysis of hydrogen plasma in a microwave plasma chemical vapor deposition reactor. Journal of Applied Physics, 2016, 119, .	1.1	36
94	Reduced work function of graphene by metal adatoms. Applied Surface Science, 2017, 394, 98-107.	3.1	36
95	Engineering the electronic bandgaps and band edge positions in carbon-substituted 2D boron nitride: a first-principles investigation. Physical Chemistry Chemical Physics, 2015, 17, 13547-13552.	1.3	35
96	Active cooling of a metal hydride system for hydrogen storage. International Journal of Heat and Mass Transfer, 2010, 53, 1326-1332.	2.5	34
97	Spark Plasma Sintering of ZrB ₂ -SiC-ZrC ultra-high temperature ceramics at 1800°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6079-6082.	2.6	34
98	Controlled thin graphitic petal growth on oxidized silicon. Diamond and Related Materials, 2012, 27-28, 1-9.	1.8	34
99	Synthesis of Porous Ni-Co-Mn Oxide Nanoneedles and the Temperature Dependence of Their Pseudocapacitive Behavior. Frontiers in Energy Research, 2015, 3, .	1.2	34
100	Large-scale synthesis and activation of polygonal carbon nanofibers with thin ribbon-like structures for supercapacitor electrodes. RSC Advances, 2015, 5, 31837-31844.	1.7	34
101	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. ACS Nano, 2019, 13, 13027-13036.	7.3	34
102	Flow Boiling in a Micro-Channel Coated With Carbon Nanotubes. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 639-649.	1.4	33
103	Au nanoparticles on graphitic petal arrays for surface-enhanced Raman spectroscopy. Applied Physics Letters, 2010, 97, 133108.	1.5	33
104	On the accuracy of classical and long wavelength approximations for phonon transport in graphene. Journal of Applied Physics, 2011, 110, .	1.1	33
105	Process optimization of graphene growth in a roll-to-roll plasma CVD system. AIP Advances, 2017, 7, .	0.6	33
106	Phonon-eigenspectrum-based formulation of the atomistic Green's function method. Physical Review B, 2017, 96, .	1.1	33
107	Freestanding vertically oriented single-walled carbon nanotubes synthesized using microwave plasma-enhanced CVD. Carbon, 2006, 44, 2758-2763.	5.4	32
108	Photonicly enhanced flow boiling in a channel coated with carbon nanotubes. Applied Physics Letters, 2012, 100, .	1.5	32

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109	Improved Dehydrogenation Properties of Ti-Doped LiAlH ₄ : Role of Ti Precursors. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21886-21894.	1.5	32
110	Thermal transport across metal silicide-silicon interfaces: An experimental comparison between epitaxial and nonepitaxial interfaces. <i>Physical Review B</i> , 2017, 95, .	1.1	32
111	Plasma-Made Graphene Nanostructures with Molecularly Dispersed F and Na Sites for Solar Desalination of Oil-Contaminated Seawater with Complete In-Water and In-Air Oil Rejection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38512-38521.	4.0	32
112	Lithography-Free in Situ Pd Contacts to Templated Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2006, 6, 2712-2717.	4.5	31
113	Thermoelectric topping cycles for power plants to eliminate cooling water consumption. <i>Energy Conversion and Management</i> , 2014, 84, 244-252.	4.4	31
114	Temporally and spatially resolved plasma spectroscopy in pulsed laser deposition of ultra-thin boron nitride films. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	31
115	Dendrimer-assisted low-temperature growth of carbon nanotubes by plasma-enhanced chemical vapor deposition. <i>Chemical Communications</i> , 2006, , 2899.	2.2	30
116	Boundary closures for fourth-order energy stable weighted essentially non-oscillatory finite-difference schemes. <i>Journal of Computational Physics</i> , 2011, 230, 3727-3752.	1.9	30
117	Isostaticity of constraints in amorphous jammed systems of soft frictionless Platonic solids. <i>Physical Review E</i> , 2011, 84, 030301.	0.8	30
118	Models for metal hydride particle shape, packing, and heat transfer. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13417-13428.	3.8	30
119	Variable-cell method for stress-controlled jamming of athermal, frictionless grains. <i>Physical Review E</i> , 2014, 89, 042203.	0.8	30
120	Symmetric All-Solid-State Supercapacitor Operating at 1.5 V Using a Redox-Active Gel Electrolyte. <i>ACS Applied Energy Materials</i> , 2018, 1, 5800-5809.	2.5	30
121	Harnessing the thermogalvanic effect of the ferro/ferricyanide redox couple in a thermally chargeable supercapacitor. <i>Electrochimica Acta</i> , 2018, 281, 357-369.	2.6	30
122	Self-regular boundary integral equation formulations for Laplace's equation in \mathbb{R}^2 . <i>International Journal for Numerical Methods in Engineering</i> , 2001, 51, 1-29.	1.5	29
123	Work function reduction of graphitic nanofibers by potassium intercalation. <i>Applied Physics Letters</i> , 2005, 87, 061501.	1.5	29
124	Low-voltage ionization of air with carbon-based materials. <i>Plasma Sources Science and Technology</i> , 2005, 14, 654-660.	1.3	29
125	In situ characterization of metal hydride thermal transport properties. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 614-621.	3.8	29
126	Charge storage in mesoscopic graphitic islands fabricated using AFM bias lithography. <i>Nanotechnology</i> , 2011, 22, 245302.	1.3	28

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127	Analysis and optimization of a natural draft heat sink system. IEEE Transactions on Components and Packaging Technologies, 1997, 20, 111-119.	0.7	27
128	Simulation of thermal conductance across dimensionally mismatched graphene interfaces. Journal of Applied Physics, 2010, 108, .	1.1	27
129	Dopant-vacancy binding effects in Li-doped magnesium hydride. Physical Review B, 2010, 82, .	1.1	27
130	Carbon nanowalls amplify the surface-enhanced Raman scattering from Ag nanoparticles. Nanotechnology, 2011, 22, 395704.	1.3	27
131	Experimental Characterization of Capillary-Fed Carbon Nanotube Vapor Chamber Wicks. Journal of Heat Transfer, 2013, 135, .	1.2	27
132	Carbon nanotube arrays decorated with multi-layer graphene-nanopetals enhance mechanical strength and durability. Carbon, 2015, 84, 236-245.	5.4	27
133	Influence of nanoscale geometry on the thermodynamics of electron field emission. Applied Physics Letters, 2001, 79, 3699-3701.	1.5	26
134	1kWe sodium borohydride hydrogen generation system. Journal of Power Sources, 2007, 170, 150-159.	4.0	26
135	Palladium Thiolate Bonding of Carbon Nanotube Thermal Interfaces. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.2	25
136	Metal functionalization of carbon nanotubes for enhanced sintered powder wicks. International Journal of Heat and Mass Transfer, 2013, 59, 372-383.	2.5	25
137	Characterization of vertically oriented carbon nanotube arrays as high-temperature thermal interface materials. International Journal of Heat and Mass Transfer, 2017, 106, 1287-1293.	2.5	25
138	The effect of heating rate and composition on the properties of spark plasma sintered zirconium diboride based composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 538, 98-102.	2.6	24
139	Advances in thermal conductivity for energy applications: a review. Progress in Energy, 2021, 3, 012002.	4.6	24
140	A Pulsed Source-Sink Fluid Mixing Device. Journal of Microelectromechanical Systems, 2006, 15, 259-266.	1.7	23
141	Electrical and Thermal Interface Conductance of Carbon Nanotubes Grown under Direct Current Bias Voltage. Journal of Physical Chemistry C, 2008, 112, 19727-19733.	1.5	23
142	Thermodynamics of hydrogen vacancies in MgH : first-principles calculations and grand-canonical statistical mechanics. Physical Review B, 2009, 80, .	1.1	23
143	Cosmetically Adaptable Transparent Strain Sensor for Sensitive Delineating Patterns in Small Movements of Vital Human Organs. ACS Applied Materials & Interfaces, 2018, 10, 44126-44133.	4.0	23
144	Planar microscale ionization devices in atmospheric air with diamond-based electrodes. Plasma Sources Science and Technology, 2009, 18, 035004.	1.3	22

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145	Toward surround gates on vertical single-walled carbon nanotube devices. Journal of Vacuum Science & Technology B, 2009, 27, 821.	1.3	22
146	Thermionic emission energy distribution from nanocrystalline diamond films for direct thermal-electrical energy conversion applications. Journal of Applied Physics, 2009, 106, 043716.	1.1	22
147	Room-temperature ferromagnetism in graphitic petal arrays. Nanoscale, 2011, 3, 900.	2.8	22
148	Modeling of Polarization-Specific Phonon Transmission Through Interfaces. Journal of Heat Transfer, 2011, 133, .	1.2	22
149	Characterization and nanostructured enhancement of boiling incipience in capillary-fed, ultra-thin sintered powder wicks. , 2012, , .		22
150	Attiker probes for dissipative phonon quantum transport in semiconductor nanostructures. Applied Physics Letters, 2016, 108, .	1.5	22
151	Efficient Heat Transfer Approximation for the Chip-on-Substrate Problem. Journal of Electronic Packaging, Transactions of the ASME, 1996, 118, 271-279.	1.2	21
152	In-place fabrication of nanowire electrode arrays for vertical nanoelectronics on Si substrates. Journal of Vacuum Science & Technology B, 2007, 25, 343.	1.3	21
153	Controlled Decoration of Single-Walled Carbon Nanotubes with Pd Nanocubes. Journal of Physical Chemistry C, 2007, 111, 13756-13762.	1.5	21
154	Optimal shapes of fully embedded channels for conjugate cooling. IEEE Transactions on Advanced Packaging, 2001, 24, 555-562.	1.7	20
155	Diamond field-emission triode with low gate turn-on voltage and high gain. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 614.	1.6	20
156	High-temperature electron emission from diamond films. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 587.	1.6	20
157	Thermionic emission from surface-terminated nanocrystalline diamond. Diamond and Related Materials, 2006, 15, 1601-1608.	1.8	20
158	Thermionic and Photo-Excited Electron Emission for Energy-Conversion Processes. Frontiers in Energy Research, 2014, 2, .	1.2	20
159	Effects of Graphene Nanopetal Outgrowths on Internal Thermal Interface Resistance in Composites. ACS Applied Materials & Interfaces, 2016, 8, 6678-6684.	4.0	20
160	Versatile technique for assessing thickness of 2D layered materials by XPS. Nanotechnology, 2018, 29, 115705.	1.3	20
161	PHOTOACOUSTIC TECHNIQUE FOR THERMAL CONDUCTIVITY AND THERMAL INTERFACE MEASUREMENTS. Annual Review of Heat Transfer, 2013, 16, 135-157.	0.3	20
162	Microscale Ion-Driven Air Flow Over a Flat Plate. , 2004, , 463.		19

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163	Optimization of carbon nanotube synthesis from porous anodic Al-Fe-Al templates. Carbon, 2007, 45, 2290-2296.	5.4	19
164	Independently addressable fields of porous anodic alumina embedded in SiO ₂ on Si. Applied Physics Letters, 2008, 92, 013122.	1.5	19
165	Effects of Titanium-Containing Additives on the Dehydrogenation Properties of LiAlH ₄ : A Computational and Experimental Study. Journal of Physical Chemistry C, 2012, 116, 22327-22335.	1.5	18
166	Boron-carbon-nitrogen foam surfaces for thermal physisorption applications. Thin Solid Films, 2013, 528, 187-193.	0.8	18
167	Microscopic Evaluation of Electrical and Thermal Conduction in Random Metal Wire Networks. ACS Applied Materials & Interfaces, 2017, 9, 13703-13712.	4.0	18
168	Transient thermal management of portable electronics using heat storage and dynamic power dissipation control. IEEE Transactions on Components and Packaging Technologies, 1998, 21, 113-123.	0.7	17
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