

Timothy S Fisher

List of Publications by Year in descending order

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200
papers

8,688
citations

53794

45
h-index

49909

87
g-index

201
all docs

201
docs citations

201
times ranked

10786
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentrated solar-thermal methane pyrolysis in a porous substrate: Yield analysis via infrared laser absorption. <i>Proceedings of the Combustion Institute</i> , 2023, 39, 5581-5589.	3.9	3
2	High-Temperature Thermal Diffusivity Measurements Using a Modified Å...ngstrÅ¶m's Method With Transient Infrared Thermography. <i>Journal of Heat Transfer</i> , 2022, 144, .	2.1	4
3	Solar-thermal Production of Graphitic Carbon and Hydrogen via Methane Decomposition. <i>Energy & Fuels</i> , 2022, 36, 3920-3928.	5.1	17
4	Damping of oscillatory temperature profiles with a thermal storage device. , 2021, , .		0
5	A Heat Transfer Model for Graphene Deposition on Ni and Cu Foils in a Roll-to-Roll Plasma Chemical Vapor Deposition System. <i>Journal of Heat Transfer</i> , 2021, 143, .	2.1	2
6	A continuum model of heat transfer in electrical double-layer capacitors with porous electrodes under constant-current cycling. <i>Journal of Power Sources</i> , 2021, 511, 230404.	7.8	8
7	Thermal boundary conductance across Co/Cu interfaces with spin-lattice interactions. <i>Journal of Applied Physics</i> , 2021, 130, 235108.	2.5	5
8	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.	8.0	32
9	Vertical graphene nano-antennas for solar-to-hydrogen energy conversion. <i>Solar Energy</i> , 2020, 208, 379-387.	6.1	13
10	Atomistic simulation of phonon and magnon thermal transport across the ferromagnetic-paramagnetic transition. <i>Physical Review B</i> , 2020, 101, .	3.2	12
11	Thermal conductance at nanoscale amorphous boron nitride/metal interfaces. <i>Surface and Coatings Technology</i> , 2020, 397, 126017.	4.8	9
12	Rapid Analytical Instrumentation for Electrochemical Impedance Spectroscopy Measurements. <i>Journal of the Electrochemical Society</i> , 2020, 167, 027545.	2.9	4
13	Accurate Thermal Diffusivity Measurements Using a Modified Å...ngstrÅ¶m's Method With Bayesian Statistics. <i>Journal of Heat Transfer</i> , 2020, 142, .	2.1	8
14	Control-Oriented Modeling of Integrated Flash Boiling for Rapid Transient Heat Dissipation. <i>Journal of Thermophysics and Heat Transfer</i> , 2019, 33, 817-829.	1.6	3
15	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. <i>ACS Nano</i> , 2019, 13, 13027-13036.	14.6	34
16	Scalable Production of Integrated Graphene Nanoarchitectures for Ultrafast Solar-Thermal Conversion and Vapor Generation. <i>Matter</i> , 2019, 1, 1017-1032.	10.0	60
17	Ragone Relations for Thermal Energy Storage Technologies. <i>Frontiers in Mechanical Engineering</i> , 2019, 5, .	1.8	10
18	Heat generation in all-solid-state supercapacitors with graphene electrodes and gel electrolytes. <i>Electrochimica Acta</i> , 2019, 303, 341-353.	5.2	17

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19	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019, 363, 723-727.	12.6	429
20	Thermal boundary resistance predictions with non-equilibrium Green's function and molecular dynamics simulations. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	11
21	Bioinspired leaves-on-branchlet hybrid carbon nanostructure for supercapacitors. <i>Nature Communications</i> , 2018, 9, 790.	12.8	154
22	Rapid colorimetric analysis of graphene on copper. <i>Corrosion Science</i> , 2018, 138, 319-325.	6.6	1
23	Versatile technique for assessing thickness of 2D layered materials by XPS. <i>Nanotechnology</i> , 2018, 29, 115705.	2.6	20
24	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.	5.1	30
25	Roll-to-Roll Production of Graphitic Petals on Carbon Fiber Tow. <i>Advanced Engineering Materials</i> , 2018, 20, 1800004.	3.5	13
26	Continuous glucose monitoring with a flexible biosensor and wireless data acquisition system. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 237-243.	7.8	13
27	High-throughput transient thermal interface testing method using time-domain thermal response. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 228-233.	4.8	3
28	Harnessing the thermogalvanic effect of the ferro/ferricyanide redox couple in a thermally chargeable supercapacitor. <i>Electrochimica Acta</i> , 2018, 281, 357-369.	5.2	30
29	Thermal transport across metal silicide-silicon interfaces: First-principles calculations and Green's function transport simulations. <i>Physical Review B</i> , 2017, 95, .	3.2	76
30	Thermal transport across metal silicide-silicon interfaces: An experimental comparison between epitaxial and nonepitaxial interfaces. <i>Physical Review B</i> , 2017, 95, .	3.2	32
31	Brazed Carbon Nanotube Arrays: Decoupling Thermal Conductance and Mechanical Rigidity. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601042.	3.7	8
32	Slow creep in soft granular packings. <i>Soft Matter</i> , 2017, 13, 3411-3421.	2.7	11
33	Graphene nanopetal wire supercapacitors with high energy density and thermal durability. <i>Nano Energy</i> , 2017, 38, 127-136.	16.0	58
34	Magnetothermoelectric effects in graphene and their dependence on scatterer concentration, magnetic field, and band gap. <i>Journal of Applied Physics</i> , 2017, 121, 125113.	2.5	7
35	Mechanical Behavior of Carbon Nanotube Forests Grown With Plasma Enhanced Chemical Vapor Deposition: Pristine and Conformally Coated. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2017, 139, .	1.4	5
36	Flyweight 3D Graphene Scaffolds with Microinterface Barrier-Derived Tunable Thermal Insulation and Flame Retardancy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14232-14241.	8.0	67

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37	Hardware-in-the-Loop Validation of Advanced Fuel Thermal Management Control. Journal of Thermophysics and Heat Transfer, 2017, 31, 901-909.	1.6	16
38	Plasma Chemical and Physical Vapour Deposition Methods and Diagnostics for 2D Materials. , 2017, , 275-315.		0
39	Process optimization of graphene growth in a roll-to-roll plasma CVD system. AIP Advances, 2017, 7, .	1.3	33
40	Phonon-eigenspectrum-based formulation of the atomistic Green's function method. Physical Review B, 2017, 96, .	3.2	33
41	Characterization of vertically oriented carbon nanotube arrays as high-temperature thermal interface materials. International Journal of Heat and Mass Transfer, 2017, 106, 1287-1293.	4.8	25
42	Reduced work function of graphene by metal adatoms. Applied Surface Science, 2017, 394, 98-107.	6.1	36
43	Scalable Coating of Single-Source Nickel Hexadecanethiolate Precursor on 3D Graphitic Petals for Asymmetric Supercapacitors. Energy Technology, 2017, 5, 740-746.	3.8	9
44	Work Function Characterization of Potassium-Intercalated, Boron Nitride Doped Graphitic Petals. Frontiers in Mechanical Engineering, 2017, 3, .	1.8	3
45	Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics. Advanced Functional Materials, 2016, 26, 2640-2647.	14.9	90
46	Hierarchical Ni-Co Hydroxide Petals on Mechanically Robust Graphene Petal Foam for High-Energy Asymmetric Supercapacitors. Advanced Functional Materials, 2016, 26, 5460-5470.	14.9	151
47	Hyperbolically Patterned 3D Graphene Metamaterial with Negative Poisson's Ratio and Superelasticity. Advanced Materials, 2016, 28, 2229-2237.	21.0	178
48	H2 Mole Fraction Measurements in a Microwave Plasma Using Coherent Anti-Stokes Raman Scattering Spectroscopy. Journal of Micro and Nano-Manufacturing, 2016, 4, .	0.7	0
49	Design and Validation of a High-Temperature Thermal Interface Resistance Measurement System. Journal of Thermal Science and Engineering Applications, 2016, 8, .	1.5	10
50	Guidance of cell adhesion and migration by graphitic nanopetals on carbon fibers. Materials Letters, 2016, 184, 211-215.	2.6	4
51	Highly porous three-dimensional carbon nanotube foam as a freestanding anode for a lithium-ion battery. RSC Advances, 2016, 6, 79734-79744.	3.6	44
52	Generalized Compact Modeling of Nanoparticle-Based Amperometric Glucose Biosensors. IEEE Transactions on Electron Devices, 2016, 63, 4924-4932.	3.0	10
53	Response of Phase-Change-Material-Filled Porous Foams Under Transient Heating Conditions. Journal of Thermophysics and Heat Transfer, 2016, 30, 880-889.	1.6	8
54	Electroreflectance imaging of gold-H3PO4 supercapacitors. Part II: microsupercapacitor ageing characterization. Analyst, The, 2016, 141, 1462-1471.	3.5	3

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55	Electroreflectance imaging of gold ³ PO ⁴ supercapacitors. Part I: experimental methodology. <i>Analyst, The</i> , 2016, 141, 1448-1461.	3.5	7
56	Combined Microstructure and Heat Transfer Modeling of Carbon Nanotube Thermal Interface Materials. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	7
57	Effects of Graphene Nanopetal Outgrowths on Internal Thermal Interface Resistance in Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6678-6684.	8.0	20
58	Synthesis of Porous Ni-Co-Mn Oxide Nanoneedles and the Temperature Dependence of Their Pseudocapacitive Behavior. <i>Frontiers in Energy Research</i> , 2015, 3, .	2.3	34
59	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. <i>Carbon</i> , 2015, 93, 659-670.	10.3	182
60	Modeling Thermal Storage in Wax-Impregnated Foams with a Pore-Scale Submodel. <i>Journal of Thermophysics and Heat Transfer</i> , 2015, 29, 812-819.	1.6	5
61	Temporally and spatially resolved plasma spectroscopy in pulsed laser deposition of ultra-thin boron nitride films. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	31
62	Electron-phonon coupling and thermal conductance at a metal-semiconductor interface: First-principles analysis. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	45
63	Influence of Temperature on Supercapacitor Components. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015, , 27-69.	0.4	1
64	Thermal Management in Electrochemical Energy Storage Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015, , 1-10.	0.4	5
65	Thermal Effects in Supercapacitors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015, , .	0.4	50
66	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.	4.8	44
67	Optical properties of thin graphitic nanopetal arrays. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 158, 84-90.	2.3	5
68	Large-scale synthesis and activation of polygonal carbon nanofibers with thin ribbon-like structures for supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 31837-31844.	3.6	34
69	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.	10.3	101
70	Influence of Temperature on Supercapacitor Performance. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015, , 71-114.	0.4	9
71	Atomic Layer Deposition of FeO on Pt(111) by Ferrocene Adsorption and Oxidation. <i>Chemistry of Materials</i> , 2015, 27, 5915-5924.	6.7	43
72	Carbon nanotube arrays decorated with multi-layer graphene-nanopetals enhance mechanical strength and durability. <i>Carbon</i> , 2015, 84, 236-245.	10.3	27

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73	Thermal Considerations for Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , 11-26.	0.4	0
74	Thermal Modeling of Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , 115-141.	0.4	3
75	Thermionic and Photo-Excited Electron Emission for Energy-Conversion Processes. Frontiers in Energy Research, 2014, 2, .	2.3	20
76	Hydrophilic CNT-Sintered Copper Composite Wick for Enhanced Cooling. , 2014, , 267-288.		0
77	Laser Diagnostics of Plasma in Synthesis of Graphene-Based Materials. Journal of Micro and Nano-Manufacturing, 2014, 2, .	0.7	5
78	First Principles and Finite Element Predictions of Radiative Properties of Nanostructure Arrays: Single-Walled Carbon Nanotube Arrays. Journal of Heat Transfer, 2014, 136, .	2.1	3
79	Hydrophilic CNT-Sintered Copper Composite Wick for Enhanced Cooling. , 2014, , 267-288.		0
80	Synthesis of few-layer, large area hexagonal-boron nitride by pulsed laser deposition. Thin Solid Films, 2014, 572, 245-250.	1.8	85
81	Graphitic Petal Electrodes for All-Solid-State Flexible Supercapacitors. Advanced Energy Materials, 2014, 4, 1300515.	19.5	147
82	Graphitic Petal Micro-Supercapacitor Electrodes for Ultra-High Power Density. Energy Technology, 2014, 2, 897-905.	3.8	45
83	Thermally driven squeezed-film cooling with carbon nanotube-coated gadolinium shuttles. International Journal of Heat and Mass Transfer, 2014, 78, 1199-1207.	4.8	1
84	A Review of Graphene-Based Electrochemical Microsupercapacitors. Electroanalysis, 2014, 26, 30-51.	2.9	317
85	Growth of contiguous graphite fins from thermally conductive graphite fibers. Carbon, 2014, 69, 424-436.	10.3	6
86	Thermoelectric topping cycles for power plants to eliminate cooling water consumption. Energy Conversion and Management, 2014, 84, 244-252.	9.2	31
87	Variable-cell method for stress-controlled jamming of athermal, frictionless grains. Physical Review E, 2014, 89, 042203.	2.1	30
88	HYDROPHILIC CNT-SINTERED COPPER COMPOSITE WICK FOR ENHANCED COOLING. WSPC Series in Advanced Integration and Packaging, 2014, , 307-331.	0.0	0
89	Conduction in Jammed Systems of Tetrahedra. Journal of Heat Transfer, 2013, 135, .	2.1	7
90	Combined Microstructure and Heat Conduction Modeling of Heterogeneous Interfaces and Materials. Journal of Heat Transfer, 2013, 135, .	2.1	9

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91	Experimental Characterization of Capillary-Fed Carbon Nanotube Vapor Chamber Wicks. Journal of Heat Transfer, 2013, 135, .	2.1	27
92	Metal functionalization of carbon nanotubes for enhanced sintered powder wicks. International Journal of Heat and Mass Transfer, 2013, 59, 372-383.	4.8	25
93	MnO ₂ -coated graphitic petals for supercapacitor electrodes. Journal of Power Sources, 2013, 227, 254-259.	7.8	195
94	Graphene: An effective oxidation barrier coating for liquid and two-phase cooling systems. Corrosion Science, 2013, 69, 5-10.	6.6	64
95	Effect of Gamma-Ray Irradiation on the Thermal Contact Conductance of Carbon Nanotube Thermal Interface Materials. , 2013, , .		1
96	Optical properties of ordered carbon nanotube arrays grown in porous anodic alumina templates. Optics Express, 2013, 21, 22053.	3.4	14
97	Photonicly excited electron emission from modified graphitic nanopetal arrays. Journal of Applied Physics, 2013, 113, 193710.	2.5	6
98	Carbon Nanotube Arrays for Enhanced Thermal Interfaces to Thermoelectric Modules. Journal of Thermophysics and Heat Transfer, 2013, 27, 474-481.	1.6	13
99	Length and temperature dependent $1/f$ noise in vertical single-walled carbon nanotube arrays. Journal of Applied Physics, 2013, 113, .	2.5	4
100	Laser Diagnostics of Plasma in Synthesis of Graphene-Based Materials. , 2013, , .		0
101	Photonicly enhanced flow boiling in a channel coated with carbon nanotubes. Applied Physics Letters, 2012, 100, .	3.3	32
102	Characterization of Metallicly Bonded Carbon Nanotube-Based Thermal Interface Materials Using a High Accuracy 1D Steady-State Technique. Journal of Electronic Packaging, Transactions of the ASME, 2012, 134, .	1.8	46
103	Columnar order in jammed LiFePO ₄ cathodes: ion transport catastrophe and its mitigation. Physical Chemistry Chemical Physics, 2012, 14, 7040.	2.8	37
104	Thermal and Electrical Conductivities of Nanocrystalline Nickel Microbridges. Journal of Microelectromechanical Systems, 2012, 21, 850-858.	2.5	13
105	Models for metal hydride particle shape, packing, and heat transfer. International Journal of Hydrogen Energy, 2012, 37, 13417-13428.	7.1	30
106	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.	3.1	18
107	Characterization and nanostructured enhancement of boiling incipience in capillary-fed, ultra-thin sintered powder wicks. , 2012, , .		22
108	Improved Dehydrogenation Properties of Ti-Doped LiAlH ₄ : Role of Ti Precursors. Journal of Physical Chemistry C, 2012, 116, 21886-21894.	3.1	32

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109	Controlled thin graphitic petal growth on oxidized silicon. <i>Diamond and Related Materials</i> , 2012, 27-28, 1-9.	3.9	34
110	Carbon nanotube thermal interfaces on gadolinium foil. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 6716-6722.	4.8	8
111	Synthesis of chemically bonded CNT-graphene heterostructure arrays. <i>RSC Advances</i> , 2012, 2, 8250.	3.6	37
112	Microwave-Assisted Surface Synthesis of a Boron-Carbon-Nitrogen Foam and its Desorption Enthalpy. <i>Advanced Functional Materials</i> , 2012, 22, 3682-3690.	14.9	69
113	Nanostructuring Platinum Nanoparticles on Multilayered Graphene Petal Nanosheets for Electrochemical Biosensing. <i>Advanced Functional Materials</i> , 2012, 22, 3399-3405.	14.9	199
114	On the accuracy of classical and long wavelength approximations for phonon transport in graphene. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	33
115	Mechanism of thermal conductivity reduction in few-layer graphene. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	135
116	Transforming the Fabrication and Biofunctionalization of Gold Nanoelectrode Arrays into Versatile Electrochemical Glucose Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1765-1770.	8.0	48
117	Effects of Carbon Nanotube-Tethered Nanosphere Density on Amperometric Biosensing: Simulation and Experiment. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20896-20904.	3.1	42
118	Carbon nanowalls amplify the surface-enhanced Raman scattering from Ag nanoparticles. <i>Nanotechnology</i> , 2011, 22, 395704.	2.6	27
119	Charge storage in mesoscopic graphitic islands fabricated using AFM bias lithography. <i>Nanotechnology</i> , 2011, 22, 245302.	2.6	28
120	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
121	Room-temperature ferromagnetism in graphitic petal arrays. <i>Nanoscale</i> , 2011, 3, 900.	5.6	22
122	Thermal Conductivity Reduction in Few-Layer Graphene. , 2011, , .		0
123	Characterization of Metallically Bonded Carbon Nanotube-Based Thermal Interface Materials Using a High Accuracy 1D Steady-State Technique. , 2011, , .		1
124	Low-Frequency Electrical Noise Thermometry for Micro- and Nano-Scale Devices. , 2011, , .		0
125	Graphene-based hybrid materials and devices for biosensing. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 1352-1360.	13.7	267
126	Isostaticity of constraints in amorphous jammed systems of soft frictionless Platonic solids. <i>Physical Review E</i> , 2011, 84, 030301.	2.1	30

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127	Palladium Thiolate Bonding of Carbon Nanotube Thermal Interfaces. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.8	25
128	Pool Boiling Performance Comparison of Smooth and Sintered Copper Surfaces with and Without Carbon Nanotubes. Nanoscale and Microscale Thermophysical Engineering, 2011, 15, 133-150.	2.6	67
129	Catalytic influence of Ni-based additives on the dehydrogenation properties of ball milled MgH ₂ . Journal of Materials Research, 2011, 26, 2725-2734.	2.6	9
130	Spectral phonon conduction and dominant scattering pathways in graphene. Journal of Applied Physics, 2011, 110, 094312.	2.5	44
131	Active cooling of a metal hydride system for hydrogen storage. International Journal of Heat and Mass Transfer, 2010, 53, 1326-1332.	4.8	34
132	In situ characterization of metal hydride thermal transport properties. International Journal of Hydrogen Energy, 2010, 35, 614-621.	7.1	29
133	Electrochemical Glucose Biosensor of Platinum Nanospheres Connected by Carbon Nanotubes. Journal of Diabetes Science and Technology, 2010, 4, 312-319.	2.2	52
134	Photo- and thermionic emission from potassium-intercalated carbon nanotube arrays. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 423-434.	1.2	44
135	Simulation of thermal conductance across dimensionally mismatched graphene interfaces. Journal of Applied Physics, 2010, 108, .	2.5	27
136	Improved Efficiency of Dye-Sensitized Solar Cells Using a Vertically Aligned Carbon Nanotube Counter Electrode. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.8	17
137	Thermal Performance of Carbon Nanotube Enhanced Vapor Chamber Wicks. , 2010, , .		15
138	Au nanoparticles on graphitic petal arrays for surface-enhanced Raman spectroscopy. Applied Physics Letters, 2010, 97, 133108.	3.3	33
139	Athermal jamming of soft frictionless Platonic solids. Physical Review E, 2010, 82, 051304.	2.1	39
140	Preferential Biofunctionalization of Carbon Nanotubes Grown by Microwave Plasma-Enhanced CVD. Journal of Physical Chemistry C, 2010, 114, 9596-9602.	3.1	7
141	Optical properties of ordered vertical arrays of multi-walled carbon nanotubes from FDTD simulations. Optics Express, 2010, 18, 6347.	3.4	82
142	Shot Noise Thermometry for Thermal Characterization of Templated Carbon Nanotubes. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 178-183.	1.3	7
143	Simulation of phonon transmission through graphene and graphene nanoribbons with a Greenâ€™s function method. Journal of Applied Physics, 2010, 108, .	2.5	55
144	Carbon Nanotube Interfaces for Magneto Thermoelectric Actuation. , 2010, , .		0

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145	Contiguous Petal-like Carbon Nanosheet Outgrowths from Graphite Fibers by Plasma CVD. ACS Applied Materials & Interfaces, 2010, 2, 644-648.	8.0	58
146	Modeling of subcontinuum thermal transport across semiconductor-gas interfaces. Journal of Applied Physics, 2009, 106, .	2.5	16
147	Toward surround gates on vertical single-walled carbon nanotube devices. Journal of Vacuum Science & Technology B, 2009, 27, 821.	1.3	22
148	Physics based models for metal hydride particle morphology, distribution, and effective thermal conductivity. Materials Research Society Symposia Proceedings, 2009, 1172, 106.	0.1	1
149	Biosensor Capture Kinetics Model of Nanocube-Augmented Carbon Nanotube Networks. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
150	Thermomechanical and Thermal Contact Characteristics of Bismuth Telluride Films Electrodeposited on Carbon Nanotube Arrays. Advanced Materials, 2009, 21, 4280-4283.	21.0	14
151	Contact mechanics and thermal conductance of carbon nanotube array interfaces. International Journal of Heat and Mass Transfer, 2009, 52, 3490-3503.	4.8	127
152	Electrochemical Biosensor of Nanocube-Augmented Carbon Nanotube Networks. ACS Nano, 2009, 3, 37-44.	14.6	242
153	Self-assembled CNT circuits with ohmic contacts using Pd hexadecanethiolate as in situ solder. Nanoscale, 2009, 1, 271.	5.6	9
154	Nanoscale design to enable the revolution in renewable energy. Energy and Environmental Science, 2009, 2, 559.	30.8	348
155	Flow Boiling in a Micro-Channel Coated With Carbon Nanotubes. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 639-649.	1.3	33
156	Thermionic emission energy distribution from nanocrystalline diamond films for direct thermal-electrical energy conversion applications. Journal of Applied Physics, 2009, 106, 043716.	2.5	22
157	Improved Efficiency of Dye Sensitized Solar Cells Using Aligned Carbon Nanotubes. , 2009, , .		0
158	Enhancement of external forced convection by ionic wind. International Journal of Heat and Mass Transfer, 2008, 51, 6047-6053.	4.8	131
159	Carbon Nanotube Array Thermal Interfaces Enhanced With Paraffin Wax. , 2008, , .		11
160	Shot noise thermometry with carbon nanotubes. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , .	0.0	0
161	Carbon Nanotube Array Thermal Interfaces for High-Temperature Silicon Carbide Devices. Nanoscale and Microscale Thermophysical Engineering, 2008, 12, 228-237.	2.6	40
162	Extraordinary Sensitivity of the Electronic Structure and Properties of Single-Walled Carbon Nanotubes to Molecular Charge-Transfer. Journal of Physical Chemistry C, 2008, 112, 13053-13056.	3.1	128

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163	Electrical and Thermal Interface Conductance of Carbon Nanotubes Grown under Direct Current Bias Voltage. Journal of Physical Chemistry C, 2008, 112, 19727-19733.	3.1	23
164	XPS and Raman characterization of single-walled carbon nanotubes grown from pretreated Fe ₂ O ₃ nanoparticles. Journal Physics D: Applied Physics, 2008, 41, 165306.	2.8	13
165	Effects of Growth Temperature on Carbon Nanotube Array Thermal Interfaces. Journal of Heat Transfer, 2008, 130, .	2.1	45
166	Photo- and Thermionic Emission From Potassium-Intercalated Single-Walled Carbon Nanotube Arrays. , 2008, , .		0
167	Electrothermal Bonding of Carbon Nanotubes to Glass. Journal of the Electrochemical Society, 2008, 155, K161.	2.9	10
168	Measurement of metal/carbon nanotube contact resistance by adjusting contact length using laser ablation. Nanotechnology, 2008, 19, 125703.	2.6	70
169	Independently addressable fields of porous anodic alumina embedded in SiO ₂ on Si. Applied Physics Letters, 2008, 92, 013122.	3.3	19
170	Experimental Study of Energy Exchange Attending Electron Emission from Carbon Nanotubes. Heat Transfer Engineering, 2008, 29, 395-404.	1.9	9
171	Influence of Bias-Enhanced Nucleation on Thermal Conductance Through Chemical Vapor Deposited Diamond Films. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 46-53.	1.3	7
172	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
173	Increased real contact in thermal interfaces: A carbon nanotube/foil material. Applied Physics Letters, 2007, 90, 093513.	3.3	144
174	Dendrimer-assisted controlled growth of carbon nanotubes for enhanced thermal interface conductance. Nanotechnology, 2007, 18, 385303.	2.6	60
175	Thermal Contact Resistance of a Silicon Nanowire on a Substrate. , 2007, , 1007.		0
176	Thermionic Emission From Potassium-Intercalated Carbon Nanotube Arrays. , 2007, , .		1
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