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	Concentrated solar-thermal methane pyrolysis in a porous substrate: Yield analysis via infrared laser absorption. Proceedings of the Combustion Institute, 2023, 39, 5581-5589.	2.4	3
2	High-Temperature Thermal Diffusivity Measurements Using a Modified Ã…ngstrÃ¶m's Method With Transient Infrared Thermography. Journal of Heat Transfer, 2022, 144, .	1.2	4
3	Enhanced thermal transport and corrosion resistance by coating vertically-aligned graphene on zirconium alloy for nuclear reactor applications. Applied Surface Science, 2022, 582, 152484.	3.1	8
4	Modeling of Supercritical Co2 Shell-and-Tube Heat Exchangers Under Extreme Conditions. Part 2: Heat Exchanger Model. Journal of Heat Transfer, 2022, , .	1.2	1
5	Modeling of Supercritical Co2 Shell-and-Tube Heat Exchangers Under Extreme Conditions. Part 1: Correlation Development. Journal of Heat Transfer, 2022, , .	1.2	1
6	Solarâ€“Thermal Production of Graphitic Carbon and Hydrogen via Methane Decomposition. Energy & Fuels, 2022, 36, 3920-3928.	2.5	17
7	Roll-to-Roll Deposition of Thin Graphitic Films and Dependence on Discharge Modes in Radio Frequency Capacitively Coupled Plasma. IEEE Transactions on Plasma Science, 2022, 50, 2126-2137.	0.6	1
8	Laser writing of electronic circuitry in thin film molybdenum disulfide: A transformative manufacturing approach. Materials Today, 2021, 43, 17-26.	8.3	11
9	Advances in thermal conductivity for energy applications: a review. Progress in Energy, 2021, 3, 012002.	4.6	24
10	Experimental demonstration of pressure-driven flash boiling for transient two-phase cooling. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, , 1-1.	1.4	2
11	Segmented Thermal Management with Flash Cooling for Heterogeneous Wafer-Scale Systems. , 2021, , .		1
12	Damping of oscillatory temperature profiles with a thermal storage device. , 2021, , .		0
13	A Heat Transfer Model for Graphene Deposition on Ni and Cu Foils in a Roll-to-Roll Plasma Chemical Vapor Deposition System. Journal of Heat Transfer, 2021, 143, .	1.2	2
14	A continuum model of heat transfer in electrical double-layer capacitors with porous electrodes under constant-current cycling. Journal of Power Sources, 2021, 511, 230404.	4.0	8
15	Thermal boundary conductance across Co/Cu interfaces with spinâ€“lattice interactions. Journal of Applied Physics, 2021, 130, 235108.	1.1	5
16	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. ACS Applied Materials & Interfaces, 2020, 12, 38512-38521.	4.0	32
17	Vertical graphene nano-antennas for solar-to-hydrogen energy conversion. Solar Energy, 2020, 208, 379-387.	2.9	13
18	In Situ Shape Control of Thermoplasmonic Gold Nanostars on Oxide Substrates for Hyperthermia-Mediated Cell Detachment. ACS Central Science, 2020, 6, 2105-2116.	5.3	15

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19	Atomistic simulation of phonon and magnon thermal transport across the ferromagnetic-paramagnetic transition. Physical Review B, 2020, 101, .	1.1	12
20	Thermal conductance at nanoscale amorphous boron nitride/metal interfaces. Surface and Coatings Technology, 2020, 397, 126017.	2.2	9
21	Photoconductivity calculations of bilayer graphene from first principles and deformation-potential approach. Physical Review B, 2020, 101, .	1.1	4
22	Rapid Analytical Instrumentation for Electrochemical Impedance Spectroscopy Measurements. Journal of the Electrochemical Society, 2020, 167, 027545.	1.3	4
23	Accurate Thermal Diffusivity Measurements Using a Modified Ã...ngstrÃ¶m's Method With Bayesian Statistics. Journal of Heat Transfer, 2020, 142, .	1.2	8
24	Dynamic Thermal Management Of Silicon Interconnect Fabric Using Flash Cooling. , 2019, , .		9
25	Discharge regimes and emission characteristics of capacitively coupled radio frequency argon plasma with a square wave input. Journal of Applied Physics, 2019, 125, .	1.1	7
26	Control-Oriented Modeling of Integrated Flash Boiling for Rapid Transient Heat Dissipation. Journal of Thermophysics and Heat Transfer, 2019, 33, 817-829.	0.9	3
27	Heterogeneous Integration of a Fan-Out Wafer-Level Packaging Based Foldable Display on Elastomeric Substrate. , 2019, , .		12
28	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. ACS Nano, 2019, 13, 13027-13036.	7.3	34
29	Solar Energy Conversion: Multifunctional Solar Waterways: Plasmaâ€Enabled Selfâ€Cleaning Nanoarchitectures for Energyâ€Efficient Desalination (Adv. Energy Mater. 30/2019). Advanced Energy Materials, 2019, 9, 1970119.	10.2	6
30	Scalable Production of Integrated Graphene Nanoarchitectures for Ultrafast Solar-Thermal Conversion and Vapor Generation. Matter, 2019, 1, 1017-1032.	5.0	60
31	Bypass, Loss, and Heat Transfer in Aircraft Surface Coolers. Frontiers in Mechanical Engineering, 2019, 5, .	0.8	4
32	Multifunctional Solar Waterways: Plasmaâ€Enabled Selfâ€Cleaning Nanoarchitectures for Energyâ€Efficient Desalination. Advanced Energy Materials, 2019, 9, 1901286.	10.2	109
33	Ragone Relations for Thermal Energy Storage Technologies. Frontiers in Mechanical Engineering, 2019, 5, .	0.8	10
34	Heat generation in all-solid-state supercapacitors with graphene electrodes and gel electrolytes. Electrochimica Acta, 2019, 303, 341-353.	2.6	17
35	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	6.0	429
36	Combined Plant and Control Design for a Flash Boiling Cooling System. , 2019, , .		0

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37	PowerTherm Attach Process for Power Delivery and Heat Extraction in the Silicon-Interconnect Fabric Using Thermocompression Bonding. , 2019, , .		8
38	Thermal boundary resistance predictions with non-equilibrium Green's function and molecular dynamics simulations. Applied Physics Letters, 2019, 115, .	1.5	11
39	Bioinspired leaves-on-branchlet hybrid carbon nanostructure for supercapacitors. Nature Communications, 2018, 9, 790.	5.8	154
40	Rapid colorimetric analysis of graphene on copper. Corrosion Science, 2018, 138, 319-325.	3.0	1
41	Transient thermal analysis of flash-boiling cooling in the presence of high-heat-flux loads. International Journal of Heat and Mass Transfer, 2018, 123, 678-692.	2.5	7
42	Decomposition of the Thermal Boundary Resistance across Carbon Nanotubeâ€“Graphene Junctions to Different Mechanisms. ACS Applied Materials & Interfaces, 2018, 10, 15226-15231.	4.0	10
43	Versatile technique for assessing thickness of 2D layered materials by XPS. Nanotechnology, 2018, 29, 115705.	1.3	20
44	Dominant phonon polarization conversion across dimensionally mismatched interfaces: Carbon-nanotubeâ€“graphene junction. Physical Review B, 2018, 97, .	1.1	13
45	Experimental characterization of dynamic heat exchanger behavior. International Journal of Heat and Mass Transfer, 2018, 121, 933-942.	2.5	4
46	Cooling power and characteristic times of composite heatsinks and insulants. International Journal of Heat and Mass Transfer, 2018, 117, 1205-1215.	2.5	45
47	Cosmetically Adaptable Transparent Strain Sensor for Sensitively Delineating Patterns in Small Movements of Vital Human Organs. ACS Applied Materials & Interfaces, 2018, 10, 44126-44133.	4.0	23
48	A Letter to the Members of the Heat Transfer Community. Journal of Heat Transfer, 2018, 140, .	1.2	0
49	Efficient thermal management of Li-ion batteries with a passive interfacial thermal regulator based on a shape memory alloy. Nature Energy, 2018, 3, 899-906.	19.8	154
50	Symmetric All-Solid-State Supercapacitor Operating at 1.5 V Using a Redox-Active Gel Electrolyte. ACS Applied Energy Materials, 2018, 1, 5800-5809.	2.5	30
51	Suggested standards for reporting power and energy density in supercapacitor research. Bulletin of Materials Science, 2018, 41, 1.	0.8	6
52	Transient Self-Heating at Nanowire Junctions in Silver Nanowire Network Conductors. IEEE Nanotechnology Magazine, 2018, 17, 1171-1180.	1.1	7
53	Bias effects on wear and corrosion behavior of amorphous hydrogenated carbon films with zirconia interlayer. Surface and Coatings Technology, 2018, 350, 603-620.	2.2	7
54	Rollâ€toâ€Roll Production of Graphitic Petals on Carbon Fiber Tow. Advanced Engineering Materials, 2018, 20, 1800004.	1.6	13

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55	Continuous glucose monitoring with a flexible biosensor and wireless data acquisition system. Sensors and Actuators B: Chemical, 2018, 275, 237-243.	4.0	13
56	High-throughput transient thermal interface testing method using time-domain thermal response. International Journal of Heat and Mass Transfer, 2018, 127, 228-233.	2.5	3
57	Harnessing the thermogalvanic effect of the ferro/ferricyanide redox couple in a thermally chargeable supercapacitor. Electrochimica Acta, 2018, 281, 357-369.	2.6	30
58	Dynamic Thermal Management for Aerospace Technology: Review and Outlook. Journal of Thermophysics and Heat Transfer, 2017, 31, 86-98.	0.9	45
59	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
60	Thermal transport across metal silicide-silicon interfaces: First-principles calculations and Green's function transport simulations. Physical Review B, 2017, 95, .	1.1	76
61	Thermal transport across metal silicide-silicon interfaces: An experimental comparison between epitaxial and nonepitaxial interfaces. Physical Review B, 2017, 95, .	1.1	32
62	Brazed Carbon Nanotube Arrays: Decoupling Thermal Conductance and Mechanical Rigidity. Advanced Materials Interfaces, 2017, 4, 1601042.	1.9	8
63	Slow creep in soft granular packings. Soft Matter, 2017, 13, 3411-3421.	1.2	11
64	Nanomaterials for Clean Energy and Environmental Sensors: An Indiaâ€“U.S. Workshop. ACS Energy Letters, 2017, 2, 1137-1138.	8.8	0
65	Graphene nanopetal wire supercapacitors with high energy density and thermal durability. Nano Energy, 2017, 38, 127-136.	8.2	58
66	Magnetothermoelectric effects in graphene and their dependence on scatterer concentration, magnetic field, and band gap. Journal of Applied Physics, 2017, 121, 125113.	1.1	7
67	Mechanical Behavior of Carbon Nanotube Forests Grown With Plasma Enhanced Chemical Vapor Deposition: Pristine and Conformally Coated. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, .	0.8	5
68	Microscopic Evaluation of Electrical and Thermal Conduction in Random Metal Wire Networks. ACS Applied Materials & Interfaces, 2017, 9, 13703-13712.	4.0	18
69	Flyweight 3D Graphene Scaffolds with Microinterface Barrier-Derived Tunable Thermal Insulation and Flame Retardancy. ACS Applied Materials & Interfaces, 2017, 9, 14232-14241.	4.0	67
70	Hardware-in-the-Loop Validation of Advanced Fuel Thermal Management Control. Journal of Thermophysics and Heat Transfer, 2017, 31, 901-909.	0.9	16
71	Plasma Chemical and Physical Vapour Deposition Methods and Diagnostics for 2D Materials. , 2017, , 275-315.		0
72	Process optimization of graphene growth in a roll-to-roll plasma CVD system. AIP Advances, 2017, 7, .	0.6	33

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73	Phonon-eigenspectrum-based formulation of the atomistic Green's function method. Physical Review B, 2017, 96, .	1.1	33
74	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
75	Reduced work function of graphene by metal adatoms. Applied Surface Science, 2017, 394, 98-107.	3.1	36
76	Scalable Coating of Singleâ€Source Nickel Hexadecanethiolate Precursor on 3D Graphitic Petals for Asymmetric Supercapacitors. Energy Technology, 2017, 5, 740-746.	1.8	9
77	High exergetic modified Brayton cycle with thermoelectric energy conversion. Applied Thermal Engineering, 2017, 114, 1366-1371.	3.0	13
78	Thermal conduction in graphite flake-epoxy composites using infrared microscopy. , 2017, , .		2
79	Work Function Characterization of Potassium-Intercalated, Boron Nitride Doped Graphitic Petals. Frontiers in Mechanical Engineering, 2017, 3, .	0.8	3
80	Modeling of Capacitively Coupled Rf Discharge With Non-Sinusoidal Current Waveform. , 2017, , .		0
81	Contemporary Challenges for Thermal and Mass Transport Technologies: A Perspective on Twenty-First Century Opportunities for the Field. Frontiers in Mechanical Engineering, 2016, 2, .	0.8	0
82	Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics. Advanced Functional Materials, 2016, 26, 2640-2647.	7.8	90
83	Hierarchical Niâ€“Co Hydroxide Petals on Mechanically Robust Graphene Petal Foam for Highâ€Energy Asymmetric Supercapacitors. Advanced Functional Materials, 2016, 26, 5460-5470.	7.8	151
84	Hyperbolically Patterned 3D Graphene Metamaterial with Negative Poisson's Ratio and Superelasticity. Advanced Materials, 2016, 28, 2229-2237.	11.1	178
85	Nanoelectronics: Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics (Adv. Funct. Mater. 16/2016). Advanced Functional Materials, 2016, 26, 2771-2771.	7.8	2
86	BÃ¼ttiker probes for dissipative phonon quantum transport in semiconductor nanostructures. Applied Physics Letters, 2016, 108, .	1.5	22
87	Analysis of hydrogen plasma in a microwave plasma chemical vapor deposition reactor. Journal of Applied Physics, 2016, 119, .	1.1	36
88	H2 Mole Fraction Measurements in a Microwave Plasma Using Coherent Anti-Stokes Raman Scattering Spectroscopy. Journal of Micro and Nano-Manufacturing, 2016, 4, .	0.8	0
89	Flash boiling from carbon foams for high-heat-flux transient cooling. Applied Physics Letters, 2016, 109, .	1.5	8
90	Design and Validation of a High-Temperature Thermal Interface Resistance Measurement System. Journal of Thermal Science and Engineering Applications, 2016, 8, .	0.8	10

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91	The Benefits of Peer Review and a Multisemester Capstone Writing Series on Inquiry and Analysis Skills in an Undergraduate Thesis. CBE Life Sciences Education, 2016, 15, ar51.	1.1	15
92	Guidance of cell adhesion and migration by graphitic nanopetals on carbon fibers. Materials Letters, 2016, 184, 211-215.	1.3	4
93	Highly porous three-dimensional carbon nanotube foam as a freestanding anode for a lithium-ion battery. RSC Advances, 2016, 6, 79734-79744.	1.7	44
94	Generalized Compact Modeling of Nanoparticle-Based Amperometric Glucose Biosensors. IEEE Transactions on Electron Devices, 2016, 63, 4924-4932.	1.6	10
95	Cross-plane thermal conductivity of (Ti,W)N/(Al,Sc)N metal/semiconductor superlattices. Physical Review B, 2016, 93, .	1.1	64
96	Response of Phase-Change-Material-Filled Porous Foams Under Transient Heating Conditions. Journal of Thermophysics and Heat Transfer, 2016, 30, 880-889.	0.9	8
97	Electroreflectance imaging of gold-H3PO4 supercapacitors. Part II: microsupercapacitor ageing characterization. Analyst, The, 2016, 141, 1462-1471.	1.7	3
98	Electroreflectance imaging of goldâ€“H₃PO₄ supercapacitors. Part I: experimental methodology. Analyst, The, 2016, 141, 1448-1461.	1.7	7
99	Combined Microstructure and Heat Transfer Modeling of Carbon Nanotube Thermal Interface Materials1. Journal of Heat Transfer, 2016, 138, .	1.2	7
100	Effects of Graphene Nanopetal Outgrowths on Internal Thermal Interface Resistance in Composites. ACS Applied Materials & Interfaces, 2016, 8, 6678-6684.	4.0	20
101	10.1063/1.4958117.1. , 2016, , .		0
102	A Model Predictive Framework for Thermal Management of Aircraft. , 2015, , .		4
103	Synthesis of Porous Niâ€“Coâ€“Mn Oxide Nanoneedles and the Temperature Dependence of Their Pseudocapacitive Behavior. Frontiers in Energy Research, 2015, 3, .	1.2	34
104	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. Carbon, 2015, 93, 659-670.	5.4	182
105	Modeling Thermal Storage in Wax-Impregnated Foams with a Pore-Scale Submodel. Journal of Thermophysics and Heat Transfer, 2015, 29, 812-819.	0.9	5
106	Temporally and spatially resolved plasma spectroscopy in pulsed laser deposition of ultra-thin boron nitride films. Journal of Applied Physics, 2015, 117, .	1.1	31
107	Dynamic Thermal Management for Aerospace Technology: A Review and Outlook. , 2015, , .		2
108	Enhancement and Optimization of Planar Impingement Heat Transfer for Thermoelectric Power Generation. , 2015, , .		0

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109	Reactive Hot Pressing and Properties of Zr_{1â^'x}Ti_xB₂â€“ZrC Composites. Journal of the American Ceramic Society, 2015, 98, 711-716.	1.9	11
110	Electron-phonon coupling and thermal conductance at a metal-semiconductor interface: First-principles analysis. Journal of Applied Physics, 2015, 117, .	1.1	45
111	Influence of Temperature on Supercapacitor Components. SpringerBriefs in Applied Sciences and Technology, 2015, , 27-69.	0.2	1
112	Thermal Management in Electrochemical Energy Storage Systems. SpringerBriefs in Applied Sciences and Technology, 2015, , 1-10.	0.2	5
113	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
114	Thermal Effects in Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , .	0.2	50
115	Heterogeneous wetting surfaces with graphitic petal-decorated carbon nanotubes for enhanced flow boiling. International Journal of Heat and Mass Transfer, 2015, 87, 380-389.	2.5	44
116	Optical properties of thin graphitic nanopetal arrays. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 158, 84-90.	1.1	5
117	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
118	Plasma-grown graphene petals templating Niâ€“Coâ€“Mn hydroxide nanoneedles for high-rate and long-cycle-life pseudocapacitive electrodes. Journal of Materials Chemistry A, 2015, 3, 22940-22948.	5.2	101
119	Thermal transport across carbon nanotube-graphene covalent and van der Waals junctions. Journal of Applied Physics, 2015, 118, .	1.1	52
120	Influence of Temperature on Supercapacitor Performance. SpringerBriefs in Applied Sciences and Technology, 2015, , 71-114.	0.2	9
121	Atomic Layer Deposition of FeO on Pt(111) by Ferrocene Adsorption and Oxidation. Chemistry of Materials, 2015, 27, 5915-5924.	3.2	43
122	Carbon nanotube arrays decorated with multi-layer graphene-nanopetals enhance mechanical strength and durability. Carbon, 2015, 84, 236-245.	5.4	27
123	Thermal Considerations for Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , 11-26.	0.2	0
124	Thermal Modeling of Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , 115-141.	0.2	3
125	Direct Growth of Few-Layer Graphene on Silicon Carbide: Fast Deposition at Moderate Temperature. Graphene, 2015, 3, 44-50.	0.2	1
126	Thermionic and Photo-Excited Electron Emission for Energy-Conversion Processes. Frontiers in Energy Research, 2014, 2, .	1.2	20

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127	Hydrophilic CNT-Sintered Copper Composite Wick for Enhanced Cooling. , 2014, , 267-288.		0
128	Laser Diagnostics of Plasma in Synthesis of Graphene-Based Materials. Journal of Micro and Nano-Manufacturing, 2014, 2, .	0.8	5
129	First Principles and Finite Element Predictions of Radiative Properties of Nanostructure Arrays: Single-Walled Carbon Nanotube Arrays. Journal of Heat Transfer, 2014, 136, .	1.2	3
130	Simulation of thermal storage in wax-impregnated porous foams with a pore-scale submodel. , 2014, , .		1
131	Hydrophilic CNT-Sintered Copper Composite Wick for Enhanced Cooling. , 2014, , 267-288.		0
132	Synthesis of few-layer, large area hexagonal-boron nitride by pulsed laser deposition. Thin Solid Films, 2014, 572, 245-250.	0.8	85
133	Methanol wetting enthalpy on few-layer graphene decorated hierarchical carbon foam for cooling applications. Thin Solid Films, 2014, 572, 169-175.	0.8	12
134	Time-dependent density functional theory of coupled electronic lattice motion in quasi-two-dimensional crystals. Physical Review B, 2014, 89, .	1.1	13
135	Graphitic Petal Electrodes for Allâ€Solidâ€State Flexible Supercapacitors. Advanced Energy Materials, 2014, 4, 1300515.	10.2	147
136	Graphitic Petal Microâ€Supercapacitor Electrodes for Ultraâ€High Power Density. Energy Technology, 2014, 2, 897-905.	1.8	45
137	Thermally driven squeezed-film cooling with carbon nanotube-coated gadolinium shuttles. International Journal of Heat and Mass Transfer, 2014, 78, 1199-1207.	2.5	1
138	A Review of Grapheneâ€Based Electrochemical Microsupercapacitors. Electroanalysis, 2014, 26, 30-51.	1.5	317
139	Growth of contiguous graphite fins from thermally conductive graphite fibers. Carbon, 2014, 69, 424-436.	5.4	6
140	Thermoelectric topping cycles for power plants to eliminate cooling water consumption. Energy Conversion and Management, 2014, 84, 244-252.	4.4	31
141	Variable-cell method for stress-controlled jamming of athermal, frictionless grains. Physical Review E, 2014, 89, 042203.	0.8	30
142	HYDROPHILIC CNT-SINTERED COPPER COMPOSITE WICK FOR ENHANCED COOLING. WSPC Series in Advanced Integration and Packaging, 2014, , 307-331.	0.0	0
143	A Network Model for the Thermal Conductivity of Pillared-Graphene Architectures. , 2014, , .		0
144	THE ATOMISTIC GREEN'S FUNCTION METHOD FOR INTERFACIAL PHONON TRANSPORT. Annual Review of Heat Transfer, 2014, 17, 89-145.	0.3	61

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145	Conduction in Jammed Systems of Tetrahedra. Journal of Heat Transfer, 2013, 135, .	1.2	7
146	Combined Microstructure and Heat Conduction Modeling of Heterogeneous Interfaces and Materials. Journal of Heat Transfer, 2013, 135, .	1.2	9
147	Experimental Characterization of Capillary-Fed Carbon Nanotube Vapor Chamber Wicks. Journal of Heat Transfer, 2013, 135, .	1.2	27
148	Metal functionalization of carbon nanotubes for enhanced sintered powder wicks. International Journal of Heat and Mass Transfer, 2013, 59, 372-383.	2.5	25
149	MnO2-coated graphitic petals for supercapacitor electrodes. Journal of Power Sources, 2013, 227, 254-259.	4.0	195
150	Boronâ€“carbonâ€“nitrogen foam surfaces for thermal physisorption applications. Thin Solid Films, 2013, 528, 187-193.	0.8	18
151	Nitrogen-doped graphene by microwave plasma chemical vapor deposition. Thin Solid Films, 2013, 528, 269-273.	0.8	38
152	Graphene: An effective oxidation barrier coating for liquid and two-phase cooling systems. Corrosion Science, 2013, 69, 5-10.	3.0	64
153	Microstructure-Dependent Heat Transfer Modeling of Carbon Nanotube Arrays for Thermal Interface Applications. , 2013, , .		1
154	Effect of Gamma-Ray Irradiation on the Thermal Contact Conductance of Carbon Nanotube Thermal Interface Materials. , 2013, , .		1
155	Solution-processed soldering of carbon nanotubes for flexible electronics. Nanotechnology, 2013, 24, 075301.	1.3	4
156	Optical properties of ordered carbon nanotube arrays grown in porous anodic alumina templates. Optics Express, 2013, 21, 22053.	1.7	14
157	Photonically excited electron emission from modified graphitic nanopetal arrays. Journal of Applied Physics, 2013, 113, 193710.	1.1	6
158	nanoHUB-U: A science gateway ventures into structured online education. , 2013, , .		1
159	Carbon Nanotube Arrays for Enhanced Thermal Interfaces to Thermoelectric Modules. Journal of Thermophysics and Heat Transfer, 2013, 27, 474-481.	0.9	13
160	Length and temperature dependent 1/f noise in vertical single-walled carbon nanotube arrays. Journal of Applied Physics, 2013, 113, .	1.1	4
161	Flash Boiling and Desorption From a Macroporous Carbon-Boron-Nitrogen Foam. , 2013, , .		4
162	Shear-induced failure in jammed nanoparticle assemblies. , 2013, , .		1

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163	Laser Diagnostics of Plasma in Synthesis of Graphene-Based Materials. , 2013, , .		0
164	PHOTOACOUSTIC TECHNIQUE FOR THERMAL CONDUCTIVITY AND THERMAL INTERFACE MEASUREMENTS. Annual Review of Heat Transfer, 2013, 16, 135-157.	0.3	20
165	Carbon Nanotube Coatings for Enhanced Capillary-Fed Boiling from Porous Microstructures. Nanoscale and Microscale Thermophysical Engineering, 2012, 16, 1-17.	1.4	75
166	Photonically enhanced flow boiling in a channel coated with carbon nanotubes. Applied Physics Letters, 2012, 100, .	1.5	32
167	Thermal Radiative Properties of Vertical Graphitic Petal Arrays. , 2012, , .		1
168	Chemically B-N Modified Activated Carbon and its Thermal Stability and Desorption Enthalpy With Methanol. , 2012, , .		2
169	Characterization of Metallically 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, .	1.2	46
170	Carbon Nanotube Arrays for Enhanced Thermal Interfaces to Thermoelectric Modules. , 2012, , .		0
171	Columnar order in jammed LiFePO4 cathodes: ion transport catastrophe and its mitigation. Physical Chemistry Chemical Physics, 2012, 14, 7040.	1.3	37
172	Thermal and Electrical Conductivities of Nanocrystalline Nickel Microbridges. Journal of Microelectromechanical Systems, 2012, 21, 850-858.	1.7	13
173	Models for metal hydride particle shape, packing, and heat transfer. International Journal of Hydrogen Energy, 2012, 37, 13417-13428.	3.8	30
174	Effects of Titanium-Containing Additives on the Dehydrogenation Properties of LiAlH₄: A Computational and Experimental Study. Journal of Physical Chemistry C, 2012, 116, 22327-22335.	1.5	18
175	Characterization and nanostructured enhancement of boiling incipience in capillary-fed, ultra-thin sintered powder wicks. , 2012, , .		22
176	Improved Dehydrogenation Properties of Ti-Doped LiAlH4: Role of Ti Precursors. Journal of Physical Chemistry C, 2012, 116, 21886-21894.	1.5	32
177	Controlled thin graphitic petal growth on oxidized silicon. Diamond and Related Materials, 2012, 27-28, 1-9.	1.8	34
178	Carbon nanotube thermal interfaces on gadolinium foil. International Journal of Heat and Mass Transfer, 2012, 55, 6716-6722.	2.5	8
179	Heat Transfer Across Metal-Dielectric Interfaces During Ultrafast-Laser Heating. Journal of Heat Transfer, 2012, 134, .	1.2	73
180	Synthesis of chemically bonded CNTâ€“graphene heterostructure arrays. RSC Advances, 2012, 2, 8250.	1.7	37

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181	Microwaveâ€Assisted Surface Synthesis of a Boronâ€“Carbonâ€“Nitrogen Foam and its Desorption Enthalpy. Advanced Functional Materials, 2012, 22, 3682-3690.	7.8	69
182	Nanostructuring Platinum Nanoparticles on Multilayered Graphene Petal Nanosheets for Electrochemical Biosensing. Advanced Functional Materials, 2012, 22, 3399-3405.	7.8	199
183	Rapid synthesis of few-layer graphene over Cu foil. Carbon, 2012, 50, 1546-1553.	5.4	72
184	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
185	On the accuracy of classical and long wavelength approximations for phonon transport in graphene. Journal of Applied Physics, 2011, 110, .	1.1	33
186	Mechanism of thermal conductivity reduction in few-layer graphene. Journal of Applied Physics, 2011, 110, .	1.1	135
187	Transforming the Fabrication and Biofunctionalization of Gold Nanoelectrode Arrays into Versatile Electrochemical Glucose Biosensors. ACS Applied Materials & Interfaces, 2011, 3, 1765-1770.	4.0	48
188	Effects of Carbon Nanotube-Tethered Nanosphere Density on Amperometric Biosensing: Simulation and Experiment. Journal of Physical Chemistry C, 2011, 115, 20896-20904.	1.5	42
189	Carbon nanowalls amplify the surface-enhanced Raman scattering from Ag nanoparticles. Nanotechnology, 2011, 22, 395704.	1.3	27
190	Charge storage in mesoscopic graphitic islands fabricated using AFM bias lithography. Nanotechnology, 2011, 22, 245302.	1.3	28
191	Electrochemical glutamate biosensing with nanocube and nanosphere augmented single-walled carbon nanotube networks: a comparative study. Journal of Materials Chemistry, 2011, 21, 11224.	6.7	58
192	An atomistic study of thermal conductance across a metal-graphene nanoribbon interface. Journal of Applied Physics, 2011, 109, .	1.1	17
193	Room-temperature ferromagnetism in graphitic petal arrays. Nanoscale, 2011, 3, 900.	2.8	22
194	Enhanced Control of Single-Walled Carbon Nanotube Properties Using MPCVD with DC Electrical Bias. , 2011, , .		0
195	Thermal Conductivity Reduction in Few-Layer Graphene. , 2011, , .		0
196	Spectral Detail of Phonon Conduction and Scattering in Graphene. , 2011, , .		0
197	Characterization of Metallically Bonded Carbon Nanotube-Based Thermal Interface Materials Using a High Accuracy 1D Steady-State Technique. , 2011, , .		1
198	Low-Frequency Electrical Noise Thermometry for Micro- and Nano-Scale Devices. , 2011, , .		0

#	Article	IF	Citations
199	Predicting the Properties of Nanostructured Metamaterials: Vertically Aligned Single-Walled Carbon Nanotube Arrays. , 2011, , .		0
200	Graphene-based hybrid materials and devices for biosensing. Advanced Drug Delivery Reviews, 2011, 63, 1352-1360.	6.6	267
201	Boundary closures for fourth-order energy stable weighted essentially non-oscillatory finite-difference schemes. Journal of Computational Physics, 2011, 230, 3727-3752.	1.9	30
202	Spark Plasma Sintering of ZrB2â€“SiCâ€“ZrC ultra-high temperature ceramics at 1800Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6079-6082.	2.6	34
203	Isostaticity of constraints in amorphous jammed systems of soft frictionless Platonic solids. Physical Review E, 2011, 84, 030301.	0.8	30
204	Anti-Stokes fluorescence imaging of microscale thermal fields in thin films. Journal of Applied Physics, 2011, 110, .	1.1	11
205	Modeling of Polarization-Specific Phonon Transmission Through Interfaces. Journal of Heat Transfer, 2011, 133, .	1.2	22
206	Modified Magnesium Hydride and Calcium Borohydride for High-Capacity Thermal Energy Storage. , 2011, , .		1
207	Micro-Patterned Substrates With Nano-Scale Elements for Pool Boiling. , 2011, , .		1
208	Effects of UV-Visible Irradiation on Pool Boiling Behavior of Copper. , 2011, , .		0
209	Frequency Resolved Phonon Transport in Si/Ge Nanocomposites. , 2011, , .		1
210	Development of Micro/Nano Engineered Wick-Based Passive Heat Spreaders for Thermal Management of High Power Electronic Devices. , 2011, , .		11
211	Phonon Transport Across Mesoscopic Constrictions. Journal of Heat Transfer, 2011, 133, .	1.2	17
212	Palladium Thiolate Bonding of Carbon Nanotube Thermal Interfaces. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.2	25
213	Effect of Phonon Dispersion on Thermal Conduction Across Si/Ge Interfaces. Journal of Heat Transfer, 2011, 133, .	1.2	51
214	Pool Boiling Performance Comparison of Smooth and Sintered Copper Surfaces with and Without Carbon Nanotubes. Nanoscale and Microscale Thermophysical Engineering, 2011, 15, 133-150.	1.4	67
215	Catalytic influence of Ni-based additives on the dehydrogenation properties of ball milled MgH₂. Journal of Materials Research, 2011, 26, 2725-2734.	1.2	9
216	Spectral phonon conduction and dominant scattering pathways in graphene. Journal of Applied Physics, 2011, 110, 094312.	1.1	44

#	Article	IF	Citations
217	Online Thermal Properties Database for Structure-Property Correlated Materials. , 2011, , .		0
218	Correlation of Electrochemical Impedance to Pool Boiling Behavior on Copper. , 2011, , .		0
219	Thermal Conductance and Constriction Resistance of Single-Layer Graphene Nano Ribbons. , 2010, , .		0
220	Analysis of Visible Radiative Properties of Vertically Aligned Multi-Walled Carbon Nanotubes. , 2010, , .		2
221	Inkjet printing of palladium alkanethiolates for facile fabrication of metal interconnects and surface-enhanced Raman scattering substrates. Micro and Nano Letters, 2010, 5, 296.	0.6	15
222	Active cooling of a metal hydride system for hydrogen storage. International Journal of Heat and Mass Transfer, 2010, 53, 1326-1332.	2.5	34
223	In situ characterization of metal hydride thermal transport properties. International Journal of Hydrogen Energy, 2010, 35, 614-621.	3.8	29
224	Electrochemical Glucose Biosensor of Platinum Nanospheres Connected by Carbon Nanotubes. Journal of Diabetes Science and Technology, 2010, 4, 312-319.	1.3	52
225	Biochemical characterization of cholesteryl ester transfer protein inhibitors. Journal of Lipid Research, 2010, 51, 2739-2752.	2.0	92
226	Photo- and thermionic emission from potassium-intercalated carbon nanotube arrays. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 423-434.	0.6	44
227	Simulation of thermal conductance across dimensionally mismatched graphene interfaces. Journal of Applied Physics, 2010, 108, .	1.1	27
228	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, .	1.1	17
229	Thermal Performance of Carbon Nanotube Enhanced Vapor Chamber Wicks. , 2010, , .		15
230	Dopant-vacancy binding effects in Li-doped magnesium hydride. Physical Review B, 2010, 82, .	1.1	27
231	Au nanoparticles on graphitic petal arrays for surface-enhanced Raman spectroscopy. Applied Physics Letters, 2010, 97, 133108.	1.5	33
232	A metallization and bonding approach for high performance carbon nanotube thermal interface materials. Nanotechnology, 2010, 21, 445705.	1.3	95
233	Athermal jamming of soft frictionless Platonic solids. Physical Review E, 2010, 82, 051304.	0.8	39
234	Preferential Biofunctionalization of Carbon Nanotubes Grown by Microwave Plasma-Enhanced CVD. Journal of Physical Chemistry C, 2010, 114, 9596-9602.	1.5	7

#	Article	IF	Citations
235	Optical properties of ordered vertical arrays of multi-walled carbon nanotubes from FDTD simulations. Optics Express, 2010, 18, 6347.	1.7	82
236	Shot Noise Thermometry for Thermal Characterization of Templated Carbon Nanotubes. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 178-183.	1.4	7
237	Simulation of phonon transmission through graphene and graphene nanoribbons with a Greenâ€™s function method. Journal of Applied Physics, 2010, 108, .	1.1	55
238	Carbon Nanotube Interfaces for Magneto Thermoelectric Actuation. , 2010, , .		0
239	Contiguous Petal-like Carbon Nanosheet Outgrowths from Graphite Fibers by Plasma CVD. ACS Applied Materials & Interfaces, 2010, 2, 644-648.	4.0	58
240	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. Journal of Biological Chemistry, 2010, 285, 12882-12891.	1.6	95
241	Modeling of subcontinuum thermal transport across semiconductor-gas interfaces. Journal of Applied Physics, 2009, 106, .	1.1	16
242	Structural and Biochemical Characterization of the Wild Type PCSK9-EGF(AB) Complex and Natural Familial Hypercholesterolemia Mutants. Journal of Biological Chemistry, 2009, 284, 1313-1323.	1.6	112
243	Vertical Carbon Nanotube Devices With Nanoscale Lengths Controlled Without Lithography. IEEE Nanotechnology Magazine, 2009, 8, 469-476.	1.1	13
244	Planar microscale ionization devices in atmospheric air with diamond-based electrodes. Plasma Sources Science and Technology, 2009, 18, 035004.	1.3	22
245	Toward surround gates on vertical single-walled carbon nanotube devices. Journal of Vacuum Science & Technology B, 2009, 27, 821.	1.3	22
246	Physics based models for metal hydride particle morphology, distribution, and effective thermal conductivity. Materials Research Society Symposia Proceedings, 2009, 1172, 106.	0.1	1
247	Linear Coefficient of Thermal Expansion of Porous Anodic Alumina Thin Films from Atomic Force Microscopy. Nanoscale and Microscale Thermophysical Engineering, 2009, 13, 243-252.	1.4	11
248	Quasi-static Compaction of Polyhedra by the Discrete Element Method. , 2009, , .		2
249	Direct simulation of ionization and ion transport for planar microscale ion generation devices. Journal Physics D: Applied Physics, 2009, 42, 055203.	1.3	12
250	Biosensor Capture Kinetics Model of Nanocube-Augmented Carbon Nanotube Networks. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
251	Boltzmann Transport Equation Simulation of Semiconductor Interfacial Heat Transfer Based on Input from the Atomistic Greenï¿½s Function Method. Materials Research Society Symposia Proceedings, 2009, 1172, 95.	0.1	0
252	Thermomechanical and Thermal Contact Characteristics of Bismuth Telluride Films Electrodeposited on Carbon Nanotube Arrays. Advanced Materials, 2009, 21, 4280-4283.	11.1	14

#	Article	IF	Citations
253	Effects of carbon nanotube coating on flow boiling in a micro-channel. International Journal of Heat and Mass Transfer, 2009, 52, 3805-3817.	2.5	212
254	Contact mechanics and thermal conductance of carbon nanotube array interfaces. International Journal of Heat and Mass Transfer, 2009, 52, 3490-3503.	2.5	127
255	Thermodynamics of hydrogen vacancies in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>MgH</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> from first-principles calculations and grand-canonical statistical mechanics. Physical Review B, 2009, 80, .	1.1	23
256	Defects in embryonic development of EGLN1/PHD2 knockdown transgenic mice are associated with induction of Igfbp in the placenta. Biochemical and Biophysical Research Communications, 2009, 390, 372-376.	1.0	17
257	Analysis of the role of the HIF hydroxylase family members in erythropoiesis. Biochemical and Biophysical Research Communications, 2009, 388, 683-688.	1.0	8
258	Electrochemical Biosensor of Nanocube-Augmented Carbon Nanotube Networks. ACS Nano, 2009, 3, 37-44.	7.3	242
259	Self-assembled CNT circuits with ohmic contacts using Pd hexadecanethiolate as in situ solder. Nanoscale, 2009, 1, 271.	2.8	9
260	Nanoscale design to enable the revolution in renewable energy. Energy and Environmental Science, 2009, 2, 559.	15.6	348
261	Flow Boiling in a Micro-Channel Coated With Carbon Nanotubes. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 639-649.	1.4	33
262	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
263	Improved Efficiency of Dye Sensitized Solar Cells Using Aligned Carbon Nanotubes. , 2009, , .		0
264	Effect of Phonon Dispersion on Thermal Conduction Across Si/Ge Interfaces. , 2009, , .		3
265	Simulation of Phonon Transmission Through Graphene With a Greenâ€™s Function Method. , 2009, , .		0
266	Palladium Thiolate Bonding of Carbon Nanotube Thermal Interfaces for High-Temperature Electronics. , 2009, , .		1
267	Heat Transfer in High-Pressure Metal Hydride Systems. Journal of Enhanced Heat Transfer, 2009, 16, 189-203.	0.5	1
268	Enhancement of external forced convection by ionic wind. International Journal of Heat and Mass Transfer, 2008, 51, 6047-6053.	2.5	131
269	Carbon Nanotube Array Thermal Interfaces Enhanced With Paraffin Wax. , 2008, , .		11
270	Flow boiling in a micro-channel coated with carbon nanotubes. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , .	0.0	2

#	Article	IF	Citations
271	Gas temperature measurements in a microwave plasma by optical emission spectroscopy under single-wall carbon nanotube growth conditions. Journal Physics D: Applied Physics, 2008, 41, 095206.	1.3	14
272	Shot noise thermometry with carbon nanotubes. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , .	0.0	0
273	Electrothermally bonded carbon nanotube interfaces. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , .	0.0	2
274	Carbon Nanotube Array Thermal Interfaces for High-Temperature Silicon Carbide Devices. Nanoscale and Microscale Thermophysical Engineering, 2008, 12, 228-237.	1.4	40
275	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.	1.5	128
276	Ionic Winds for Enhanced Cooling in Portable Platforms. , 2008, , .		3
277	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
278	XPS and Raman characterization of single-walled carbon nanotubes grown from pretreated Fe₂O₃nanoparticles. Journal Physics D: Applied Physics, 2008, 41, 165306.	1.3	13
279	Performance of Thermal Enhancement Materials in High Pressure Metal Hydride Storage Systems. , 2008, , .		4
280	Effects of Growth Temperature on Carbon Nanotube Array Thermal Interfaces. Journal of Heat Transfer, 2008, 130, .	1.2	45
281	Photo- and Thermionic Emission From Potassium-Intercalated Single-Walled Carbon Nanotube Arrays. , 2008, , .		0
282	Electrothermal Bonding of Carbon Nanotubes to Glass. Journal of the Electrochemical Society, 2008, 155, K161.	1.3	10
283	Measurement of metal/carbon nanotube contact resistance by adjusting contact length using laser ablation. Nanotechnology, 2008, 19, 125703.	1.3	70
284	Independently addressable fields of porous anodic alumina embedded in SiO[sub 2] on Si. Applied Physics Letters, 2008, 92, 013122.	1.5	19
285	Experimental Study of Energy Exchange Attending Electron Emission from Carbon Nanotubes. Heat Transfer Engineering, 2008, 29, 395-404.	1.2	9
286	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.	1.4	7
287	Simulation of refrigeration by electron emission across nanometer-scale gaps. Physical Review B, 2008, 77, .	1.1	16
288	Synthesis and Application of Quantum Dot-Tagged Fluorescent Microbeads. Journal of Nanoscience and Nanotechnology, 2008, 8, 1138-1149.	0.9	10

#	Article	IF	Citations
289	Thermal Transport in Finite-Sized Nanocomposites. , 2008, , .		2
290	Modeling of Polarization-Specific Phonon Transmission Functions Through Interfaces. , 2008, , .		0
291	Effects of Feed Gas Composition and Catalyst Thickness on Carbon Nanotube and Nanofiber Synthesis by Plasma Enhanced Chemical Vapor Deposition. Journal of Nanoscience and Nanotechnology, 2008, 8, 3068-3076.	0.9	17
292	Thermionic Emission From Alkali Potassium-Intercalated Carbon Nanotube Arrays for Direct Energy Conversion. , 2007, , 87.		1
293	Simulation of Interfacial Phonon Transport in Siâ€“Ge Heterostructures Using an Atomistic Greenâ€™s Function Method. Journal of Heat Transfer, 2007, 129, 483-491.	1.2	179
294	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
295	Field emission from GaN and (Al,Ga)Nâ•GaN nanorod heterostructures. Journal of Vacuum Science & Technology B, 2007, 25, L15.	1.3	10
296	Increased real contact in thermal interfaces: A carbon nanotube/foil material. Applied Physics Letters, 2007, 90, 093513.	1.5	144
297	Dendrimer-assisted controlled growth of carbon nanotubes for enhanced thermal interface conductance. Nanotechnology, 2007, 18, 385303.	1.3	60
298	Thermal Contact Resistance of a Silicon Nanowire on a Substrate. , 2007, , 1007.		0
299	Thermionic Emission From Potassium-Intercalated Carbon Nanotube Arrays. , 2007, , .		1
300	Photoacoustic characterization of carbon nanotube array thermal interfaces. Journal of Applied Physics, 2007, 101, 054313.	1.1	208
301	The Atomistic Green's Function Method: An Efficient Simulation Approach for Nanoscale Phonon Transport. Numerical Heat Transfer, Part B: Fundamentals, 2007, 51, 333-349.	0.6	240
302	Design, Synthesis, and Performance of a Carbon Nanotube/Metal Foil Thermal Interface Material. , 2007, , .		3
303	Ionic winds for locally enhanced cooling. Journal of Applied Physics, 2007, 102, .	1.1	145
304	Synthesis and thermionic emission properties of graphitic carbon nanofibres supported on Si wafers or carbon felt. Nanotechnology, 2007, 18, 325606.	1.3	5
305	Correlating electrical resistance to growth conditions for multiwalled carbon nanotubes. Applied Physics Letters, 2007, 91, 093105.	1.5	15
306	Controlled Decoration of Single-Walled Carbon Nanotubes with Pd Nanocubes. Journal of Physical Chemistry C, 2007, 111, 13756-13762.	1.5	21

#	Article	IF	Citations
307	Simulation of phonon transport across a non-polar nanowire junction using an atomistic Greenâ€™s function method. Physical Review B, 2007, 76, .	1.1	53
308	Optimization of carbon nanotube synthesis from porous anodic Alâ€“Feâ€“Al templates. Carbon, 2007, 45, 2290-2296.	5.4	19
309	Experimental characterization of anode heating by electron emission from a multi-walled carbon nanotube. International Journal of Heat and Mass Transfer, 2007, 50, 595-604.	2.5	2
310	Effects of carbon nanotube arrays on nucleate pool boiling. International Journal of Heat and Mass Transfer, 2007, 50, 4023-4038.	2.5	260
311	Kinetics of Ru-catalyzed sodium borohydride hydrolysis. Journal of Power Sources, 2007, 164, 772-781.	4.0	172
312	1kWe sodium borohydride hydrogen generation system. Journal of Power Sources, 2007, 165, 844-853.	4.0	62
313	1kWe sodium borohydride hydrogen generation system. Journal of Power Sources, 2007, 170, 150-159.	4.0	26
314	Assemblies of Carbon Nanotubes and Unencapsulated Sub-10-nm Gold Nanoparticles. Small, 2007, 3, 1266-1271.	5.2	12
315	Aluminum Foil/Carbon Nanotube Thermal Interface Materials. , 2007, , .		0
316	External Forced Convection Enhancement Using a Corona Discharge. , 2007, , .		1
317	Carbon Nanotube Array Thermal Interfaces on Chemical Vapor Deposited Diamond. , 2007, , .		0
318	Heat Conduction in Metal Hydride Nano-Particles. , 2007, , .		0
319	Thermionic emission from surface-terminated nanocrystalline diamond. Diamond and Related Materials, 2006, 15, 1601-1608.	1.8	20
320	Enhanced thermal contact conductance using carbon nanotube array interfaces. IEEE Transactions on Components and Packaging Technologies, 2006, 29, 261-267.	1.4	83
321	Dendrimer-assisted low-temperature growth of carbon nanotubes by plasma-enhanced chemical vapor deposition. Chemical Communications, 2006, , 2899.	2.2	30
322	A Pulsed Source-Sink Fluid Mixing Device. Journal of Microelectromechanical Systems, 2006, 15, 259-266.	1.7	23
323	Vertical single- and double-walled carbon nanotubes grown from modified porous anodic alumina templates. Nanotechnology, 2006, 17, 3925-3929.	1.3	59
324	Dendrimer-Templated Fe Nanoparticles for the Growth of Single-Wall Carbon Nanotubes by Plasma-Enhanced CVD. Journal of Physical Chemistry B, 2006, 110, 10636-10644.	1.2	43

#	Article	IF	Citations
325	Lithography-Free in Situ Pd Contacts to Templated Single-Walled Carbon Nanotubes. Nano Letters, 2006, 6, 2712-2717.	4.5	31
326	Thermionic Energy Conversion with Nanoscale Materials and Devices. AIP Conference Proceedings, 2006, , .	0.3	0
327	Parametric study of synthesis conditions in plasma-enhanced CVD of high-quality single-walled carbon nanotubes. Carbon, 2006, 44, 10-18.	5.4	98
328	Freestanding vertically oriented single-walled carbon nanotubes synthesized using microwave plasma-enhanced CVD. Carbon, 2006, 44, 2758-2763.	5.4	32
329	Enhancement of thermal interface materials with carbon nanotube arrays. International Journal of Heat and Mass Transfer, 2006, 49, 1658-1666.	2.5	426
330	Heat of reaction measurements of sodium borohydride alcoholysis and hydrolysis. International Journal of Hydrogen Energy, 2006, 31, 2292-2298.	3.8	99
331	3-Omega Measurements of Vertically Oriented Carbon Nanotubes on Silicon. Journal of Heat Transfer, 2006, 128, 1109-1113.	1.2	212
332	Effects of a carbon nanotube layer on electrical contact resistance between copper substrates. Nanotechnology, 2006, 17, 2294-2303.	1.3	74
333	Examining Interactions of HIV-1 Reverse Transcriptase with Single-stranded Template Nucleotides by Nucleoside Analog Interference. Journal of Biological Chemistry, 2006, 281, 27873-27881.	1.6	13
334	Thermal Management Analysis of On-Board High-Pressure Metal Hydride Systems. , 2006, , .		3
335	Direct Simulation Monte Carlo Analysis of Microscale Field Emission and Ionization of Atmospheric Air. , 2006, , .		3
336	Heat of Reaction Measurements of Sodium Borohydride Alcoholysis. , 2005, , 65.		1
337	Simulation of Phonon Interfacial Transport in Strained Silicon-Germanium Heterostructures. , 2005, , 683.		2
338	Enhanced Pool Boiling Using Carbon Nanotube Arrays on a Silicon Surface. , 2005, , 691.		12
339	Application of new error estimators based on gradient recovery and external domain approaches to 2D elastostatics problems. Engineering Analysis With Boundary Elements, 2005, 29, 963-975.	2.0	0
340	Work function reduction of graphitic nanofibers by potassium intercalation. Applied Physics Letters, 2005, 87, 061501.	1.5	29
341	Thermal Resistance of Nanowire-Plane Interfaces. Journal of Heat Transfer, 2005, 127, 664-668.	1.2	44
342	Estimation of parameters in thermal-field emission from diamond. Diamond and Related Materials, 2005, 14, 113-120.	1.8	13

#	Article	IF	Citations
343	DC-65 GHz characterization of nanocrystalline diamond leaky film for reliable RF MEMS switches. , 2005, , .		11
344	Low-voltage ionization of air with carbon-based materials. Plasma Sources Science and Technology, 2005, 14, 654-660.	1.3	29
345	A Review of Heat Transfer Issues in Hydrogen Storage Technologies. Journal of Heat Transfer, 2005, 127, 1391-1399.	1.2	164
346	Effects of Carbon Nanotube Structure on Protein Adsorption. , 2005, , .		1
347	Thermal Modeling of a Sodium Borohydride-Based Hydrogen Storage System. , 2005, , .		1
348	Numerical Simulation of Gas Phase Growth Environment of Carbon Nanotube Synthesis by Plasma-Enhanced Chemical Vapor Deposition. , 2005, , .		0
349	Effect of DC Bias on Microwave Plasma Enhanced Chemical Vapor Deposition Synthesis of Single-Walled Carbon Nanotubes. , 2005, , .		1
350	The Effects of Process Parameters on Carbon Nanotube Synthesis by Plasma Enhanced Chemical Vapor Deposition (PECVD). , 2005, , .		0
351	Experimental Characterization of Anode Heating Due to Electron Emission From an Individual Carbon Nanotube. , 2004, , 321.		0
352	Thermionic Emission Energy Distributions From Nanocrystalline Diamond. , 2004, , 533.		0
353	Growth of Single-Walled Carbon Nanotubes by Microwave Plasma Enhanced Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2004, 858, 119.	0.1	3
354	Simulation of Thermionic Emission from Quantum Wires. , 2004, , 65.		0
355	Simulation of Thermionic Emission From a Quantum Wire Using the Non-Equilibrium Greenâ€™s Function Method. , 2004, , 53.		3
356	Microscale Ion-Driven Air Flow Over a Flat Plate. , 2004, , 463.		19
357	Parametric Study of a Thermosyphon Loop Pressure Drop Model. , 2004, , 407.		0
358	Chaotic mixer improves microarray hybridization. Analytical Biochemistry, 2004, 325, 215-226.	1.1	76
359	Simulation of ion generation and breakdown in atmospheric air. Journal of Applied Physics, 2004, 96, 6066-6072.	1.1	76
360	Simulation of field-emitted electron trajectories and transport from carbon nanotubes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 1101.	1.6	10

#	Article	IF	Citations
361	EXPERIMENTAL CHARACTERIZATION OF ANODE HEATING DUE TO ELECTRON FIELD EMISSION. Microscale Thermophysical Engineering, 2004, 8, 101-109.	1.2	1
362	Thermal Contact Conductance Enhancement With Carbon Nanotube Arrays. , 2004, , 559.		14
363	A new variational self-regular traction-BEM formulation for inter-element continuity of displacement derivatives. Computational Mechanics, 2003, 32, 401-414.	2.2	3
364	New approaches for error estimation and adaptivity for 2D potential boundary element methods. International Journal for Numerical Methods in Engineering, 2003, 56, 117-144.	1.5	4
365	Near-crack contour behaviour and extraction of log-singular stress terms of the self-regular traction boundary integral equation. International Journal for Numerical Methods in Engineering, 2003, 58, 1251-1276.	1.5	0
366	Simulation of nonequilibrium thermal effects in power LDMOS transistors. Solid-State Electronics, 2003, 47, 1265-1273.	0.8	64
367	Analysis and simulation of anode heating due to electron field emission. IEEE Transactions on Components and Packaging Technologies, 2003, 26, 317-323.	1.4	15
368	Experimental Characterization of Low Voltage Field Emission From Carbon-Based Cathodes in Atmospheric Air. , 2003, , 199.		4
369	Numerical Simulation of Gas Phase Reaction Chemistry in Methane-Hydrogen Mixtures. , 2003, , 899.		2
370	Numerical Simulation of Microscale Ion-Driven Air Flow. , 2003, , 303.		15
371	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
372	Field emitter using multiwalled carbon nanotubes grown on the silicon tip region by microwave plasma-enhanced chemical vapor deposition. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 391.	1.6	11
373	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
374	Thermionic Electron Emission From Nanostructured Diamond. , 2003, , 431.		0
375	DSMC Simulation of Ion Generation in Atmospheric Air. , 2003, , .		3
376	Numerical Simulation of Hydrocarbon-Hydrogen Reaction Chemistry in a CVD Reactor. , 2003, , .		1
377	Modeling of Carbon Nanotube Emission Using Airy Functions. , 2003, , .		0
378	Application of the Lattice-Boltzmann Method to Sub-Continuum Heat Conduction. , 2002, , 69.		14

#	Article	IF	Citations
379	Analysis of a Diamond-Based Solar-Thermionic Power Generation System. , 2002, , .		0
380	Thermal-Field Electron Emission from Nanostructured CVD Diamond Films. , 2002, , .		0
381	Thermal and Electrical Energy Transport and Conversion in Nanoscale Electron Field Emission Processes. Journal of Heat Transfer, 2002, 124, 954-962.	1.2	40
382	Simulation of Single-Event Failure in Power Diodes. , 2002, , .		6
383	Electron Transport and Anode Heating Due to Field Emission From Carbon Nanotubes. , 2002, , .		1
384	Optimal shapes of fully embedded channels for conjugate cooling. IEEE Transactions on Advanced Packaging, 2001, 24, 555-562.	1.7	20
385	Thermal modeling of single event burnout failure in semiconductor power devices. Microelectronics Reliability, 2001, 41, 571-578.	0.9	7
386	Selfâ€regular boundary integral equation formulations for Laplace's equation in 2â€D. International Journal for Numerical Methods in Engineering, 2001, 51, 1-29.	1.5	29
387	Influence of nanoscale geometry on the thermodynamics of electron field emission. Applied Physics Letters, 2001, 79, 3699-3701.	1.5	26
388	Constrained optimal duct shapes for conjugate laminar forced convection. International Journal of Heat and Mass Transfer, 2000, 43, 113-126.	2.5	14
389	Thermodynamic characterization of a diamond-based electron emitter. AIP Conference Proceedings, 2000, , .	0.3	0
390	Experiments on Chimney-Enhanced Free Convection From Pin-Fin Heat Sinks. Journal of Electronic Packaging, Transactions of the ASME, 2000, 122, 350-355.	1.2	15
391	A complex-variable boundary element approach to fully developed flow and heat transfer in ducts of general cross-section. International Journal for Numerical Methods in Engineering, 1999, 45, 1631-1655.	1.5	4
392	Experiments on low velocity cooling of high conductivity substrates. IEEE Transactions on Components and Packaging Technologies, 1999, 22, 307-315.	1.4	2
393	Experiments on Chimney-Enhanced Free Convection. Journal of Heat Transfer, 1999, 121, 603-609.	1.2	44
394	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
395	Free Convection Limits for Pin-Fin Cooling. Journal of Heat Transfer, 1998, 120, 633-640.	1.2	39
396	Thermal Analysis and Optimization of Substrates With Directionally Enhanced Conductivities. Journal of Electronic Packaging, Transactions of the ASME, 1997, 119, 64-72.	1.2	5

#	Article	IF	Citations
397	Analysis and optimization of a natural draft heat sink system. IEEE Transactions on Components and Packaging Technologies, 1997, 20, 111-119.	0.7	27
398	Effects of package orientation and mixed convection on heat transfer from a PQFP. IEEE Transactions on Components and Packaging Technologies, 1997, 20, 152-159.	0.7	11
399	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
400	Transient thermal response due to periodic heating on a convectively cooled substrate. IEEE Transactions on Advanced Packaging, 1996, 19, 255-262.	0.7	7
401	Analysis and optimization of a natural draft heat sink system. , 0, , .		3
402	Effects of wind tunnel orientation and mixed convection on heat transfer from a PQFP. , 0, , .		5
403	Analysis and simulation of anode heating from electron field emission. , 0, , .		1
404	A computational study of gas phase chemistry in carbon nanotube synthesis by PECVD. , 0, , .		2
405	Enhanced interfacial transport using carbon nanotube arrays. , 0, , .		0
406	Numerical Simulation of Microscale Ionic Wind for Local Cooling Enhancement. , 0, , .		7
407	Modeling of a Packed-Bed Reactor in a Sodium Borohydride Hydrogen Storage System. , 0, , .		0
408	Influence of Bias-enhanced nucleation on thermal conductance through plasma-enchanced chemical vapor deposited diamond films. , 0, , .		0
409	Analysis and simulation of refrigeration by electron emission. , 0, , .		1
410	Thermal Interface Materials Based on Anchored Carbon Nanotubes. , 0, , .		0