

Timothy S. Fisher

List of Publications by Year in descending order

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410
papers

13,097
citations

23567

58
h-index

33894

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.	12.6	429
2	Enhancement of thermal interface materials with carbon nanotube arrays. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 1658-1666.	4.8	426
3	Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , 2009, 2, 559.	30.8	348
4	A Review of Graphene-Based Electrochemical Microsupercapacitors. <i>Electroanalysis</i> , 2014, 26, 30-51.	2.9	317
5	Graphene-based hybrid materials and devices for biosensing. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 1352-1360.	13.7	267
6	Effects of carbon nanotube arrays on nucleate pool boiling. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 4023-4038.	4.8	260
7	Electrochemical Biosensor of Nanocube-Augmented Carbon Nanotube Networks. <i>ACS Nano</i> , 2009, 3, 37-44.	14.6	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.	0.9	240
9	3-Omega Measurements of Vertically Oriented Carbon Nanotubes on Silicon. <i>Journal of Heat Transfer</i> , 2006, 128, 1109-1113.	2.1	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.	4.8	212
11	Photoacoustic characterization of carbon nanotube array thermal interfaces. <i>Journal of Applied Physics</i> , 2007, 101, 054313.	2.5	208
12	Nanostructuring Platinum Nanoparticles on Multilayered Graphene Petal Nanosheets for Electrochemical Biosensing. <i>Advanced Functional Materials</i> , 2012, 22, 3399-3405.	14.9	199
13	MnO ₂ -coated graphitic petals for supercapacitor electrodes. <i>Journal of Power Sources</i> , 2013, 227, 254-259.	7.8	195
14	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. <i>Carbon</i> , 2015, 93, 659-670.	10.3	182
15	Simulation of Interfacial Phonon Transport in Si ¹⁰⁰ Ge Heterostructures Using an Atomistic Green's Function Method. <i>Journal of Heat Transfer</i> , 2007, 129, 483-491.	2.1	179
16	Hyperbolically Patterned 3D Graphene Metamaterial with Negative Poisson's Ratio and Superelasticity. <i>Advanced Materials</i> , 2016, 28, 2229-2237.	21.0	178
17	Kinetics of Ru-catalyzed sodium borohydride hydrolysis. <i>Journal of Power Sources</i> , 2007, 164, 772-781.	7.8	172
18	A Review of Heat Transfer Issues in Hydrogen Storage Technologies. <i>Journal of Heat Transfer</i> , 2005, 127, 1391-1399.	2.1	164

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19	Bioinspired leaves-on-branchlet hybrid carbon nanostructure for supercapacitors. <i>Nature Communications</i> , 2018, 9, 790.	12.8	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.	39.5	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.	14.9	151
22	Graphitic Petal Electrodes for All-Solid-State Flexible Supercapacitors. <i>Advanced Energy Materials</i> , 2014, 4, 1300515.	19.5	147
23	Ionic winds for locally enhanced cooling. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	145
24	Increased real contact in thermal interfaces: A carbon nanotube/foil material. <i>Applied Physics Letters</i> , 2007, 90, 093513.	3.3	144
25	Mechanism of thermal conductivity reduction in few-layer graphene. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	135
26	Enhancement of external forced convection by ionic wind. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 6047-6053.	4.8	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.	3.1	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.	4.8	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.	3.4	112
30	Multifunctional Solar Waterways: Plasma-Enabled Self-Cleaning Nanoarchitectures for Energy-Efficient Desalination. <i>Advanced Energy Materials</i> , 2019, 9, 1901286.	19.5	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.	10.3	101
32	Heat of reaction measurements of sodium borohydride alcoholysis and hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 2292-2298.	7.1	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.	10.3	98
34	A metallization and bonding approach for high performance carbon nanotube thermal interface materials. <i>Nanotechnology</i> , 2010, 21, 445705.	2.6	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.	3.4	95
36	Biochemical characterization of cholesteryl ester transfer protein inhibitors. <i>Journal of Lipid Research</i> , 2010, 51, 2739-2752.	4.2	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.	14.9	90
38	Synthesis of few-layer, large area hexagonal-boron nitride by pulsed laser deposition. <i>Thin Solid Films</i> , 2014, 572, 245-250.	1.8	85
39	Enhanced thermal contact conductance using carbon nanotube array interfaces. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2006, 29, 261-267.	1.3	83
40	Optical properties of ordered vertical arrays of multi-walled carbon nanotubes from FDTD simulations. <i>Optics Express</i> , 2010, 18, 6347.	3.4	82
41	Chaotic mixer improves microarray hybridization. <i>Analytical Biochemistry</i> , 2004, 325, 215-226.	2.4	76
42	Simulation of ion generation and breakdown in atmospheric air. <i>Journal of Applied Physics</i> , 2004, 96, 6066-6072.	2.5	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, .	3.2	76
44	Carbon Nanotube Coatings for Enhanced Capillary-Fed Boiling from Porous Microstructures. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2012, 16, 1-17.	2.6	75
45	Effects of a carbon nanotube layer on electrical contact resistance between copper substrates. <i>Nanotechnology</i> , 2006, 17, 2294-2303.	2.6	74
46	Heat Transfer Across Metal-Dielectric Interfaces During Ultrafast-Laser Heating. <i>Journal of Heat Transfer</i> , 2012, 134, .	2.1	73
47	Rapid synthesis of few-layer graphene over Cu foil. <i>Carbon</i> , 2012, 50, 1546-1553.	10.3	72
48	Measurement of metal/carbon nanotube contact resistance by adjusting contact length using laser ablation. <i>Nanotechnology</i> , 2008, 19, 125703.	2.6	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.	14.9	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.	2.6	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.	8.0	67
52	Simulation of nonequilibrium thermal effects in power LDMOS transistors. <i>Solid-State Electronics</i> , 2003, 47, 1265-1273.	1.4	64
53	Graphene: An effective oxidation barrier coating for liquid and two-phase cooling systems. <i>Corrosion Science</i> , 2013, 69, 5-10.	6.6	64
54	Cross-plane thermal conductivity of (Ti,W)N/(Al,Sc)N metal/semiconductor superlattices. <i>Physical Review B</i> , 2016, 93, .	3.2	64

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55	1kWe sodium borohydride hydrogen generation system. <i>Journal of Power Sources</i> , 2007, 165, 844-853.	7.8	62
56	THE ATOMISTIC GREEN'S FUNCTION METHOD FOR INTERFACIAL PHONON TRANSPORT. <i>Annual Review of Heat Transfer</i> , 2014, 17, 89-145.	1.0	61
57	Dendrimer-assisted controlled growth of carbon nanotubes for enhanced thermal interface conductance. <i>Nanotechnology</i> , 2007, 18, 385303.	2.6	60
58	Scalable Production of Integrated Graphene Nanoarchitectures for Ultrafast Solar-Thermal Conversion and Vapor Generation. <i>Matter</i> , 2019, 1, 1017-1032.	10.0	60
59	Vertical single- and double-walled carbon nanotubes grown from modified porous anodic alumina templates. <i>Nanotechnology</i> , 2006, 17, 3925-3929.	2.6	59
60	Contiguous Petal-like Carbon Nanosheet Outgrowths from Graphite Fibers by Plasma CVD. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 644-648.	8.0	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.	16.0	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, .	2.5	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, .	3.2	53
65	Electrochemical Glucose Biosensor of Platinum Nanospheres Connected by Carbon Nanotubes. <i>Journal of Diabetes Science and Technology</i> , 2010, 4, 312-319.	2.2	52
66	Thermal transport across carbon nanotube-graphene covalent and van der Waals junctions. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	52
67	Effect of Phonon Dispersion on Thermal Conduction Across Si/Ge Interfaces. <i>Journal of Heat Transfer</i> , 2011, 133, .	2.1	51
68	Thermal Effects in Supercapacitors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015, , .	0.4	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.	8.0	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, .	1.8	46
71	Effects of Growth Temperature on Carbon Nanotube Array Thermal Interfaces. <i>Journal of Heat Transfer</i> , 2008, 130, .	2.1	45
72	Graphitic Petal Microâ€™Supercapacitor Electrodes for Ultraâ€™High Power Density. <i>Energy Technology</i> , 2014, 2, 897-905.	3.8	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, .	2.5	45
74	Dynamic Thermal Management for Aerospace Technology: Review and Outlook. <i>Journal of Thermophysics and Heat Transfer</i> , 2017, 31, 86-98.	1.6	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.	4.8	45
76	Experiments on Chimney-Enhanced Free Convection. <i>Journal of Heat Transfer</i> , 1999, 121, 603-609.	2.1	44
77	Thermal Resistance of Nanowire-Plane Interfaces. <i>Journal of Heat Transfer</i> , 2005, 127, 664-668.	2.1	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.	1.2	44
79	Spectral phonon conduction and dominant scattering pathways in graphene. <i>Journal of Applied Physics</i> , 2011, 110, 094312.	2.5	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.	4.8	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.	3.6	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.	2.6	43
83	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
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.	3.1	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.	2.1	40
86	Carbon Nanotube Array Thermal Interfaces for High-Temperature Silicon Carbide Devices. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2008, 12, 228-237.	2.6	40
87	Free Convection Limits for Pin-Fin Cooling. <i>Journal of Heat Transfer</i> , 1998, 120, 633-640.	2.1	39
88	Athermal jamming of soft frictionless Platonic solids. <i>Physical Review E</i> , 2010, 82, 051304.	2.1	39
89	Nitrogen-doped graphene by microwave plasma chemical vapor deposition. <i>Thin Solid Films</i> , 2013, 528, 269-273.	1.8	38
90	Columnar order in jammed LiFePO ₄ cathodes: ion transport catastrophe and its mitigation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7040.	2.8	37

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91	Synthesis of chemically bonded CNT-graphene heterostructure arrays. RSC Advances, 2012, 2, 8250.	3.6	37
92	Phonon wave effects in the thermal transport of epitaxial TiN/(Al,Sc)N metal/semiconductor superlattices. Journal of Applied Physics, 2017, 121, .	2.5	37
93	Analysis of hydrogen plasma in a microwave plasma chemical vapor deposition reactor. Journal of Applied Physics, 2016, 119, .	2.5	36
94	Reduced work function of graphene by metal adatoms. Applied Surface Science, 2017, 394, 98-107.	6.1	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.	2.8	35
96	Active cooling of a metal hydride system for hydrogen storage. International Journal of Heat and Mass Transfer, 2010, 53, 1326-1332.	4.8	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.	5.6	34
98	Controlled thin graphitic petal growth on oxidized silicon. Diamond and Related Materials, 2012, 27-28, 1-9.	3.9	34
99	Synthesis of Porous Ni-Co-Mn Oxide Nanoneedles and the Temperature Dependence of Their Pseudocapacitive Behavior. Frontiers in Energy Research, 2015, 3, .	2.3	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.	3.6	34
101	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. ACS Nano, 2019, 13, 13027-13036.	14.6	34
102	Flow Boiling in a Micro-Channel Coated With Carbon Nanotubes. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 639-649.	1.3	33
103	Au nanoparticles on graphitic petal arrays for surface-enhanced Raman spectroscopy. Applied Physics Letters, 2010, 97, 133108.	3.3	33
104	On the accuracy of classical and long wavelength approximations for phonon transport in graphene. Journal of Applied Physics, 2011, 110, .	2.5	33
105	Process optimization of graphene growth in a roll-to-roll plasma CVD system. AIP Advances, 2017, 7, .	1.3	33
106	Phonon-eigenspectrum-based formulation of the atomistic Green's function method. Physical Review B, 2017, 96, .	3.2	33
107	Freestanding vertically oriented single-walled carbon nanotubes synthesized using microwave plasma-enhanced CVD. Carbon, 2006, 44, 2758-2763.	10.3	32
108	Photonically enhanced flow boiling in a channel coated with carbon nanotubes. Applied Physics Letters, 2012, 100, .	3.3	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.	3.1	32
110	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
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.	8.0	32
112	Lithography-Free in Situ Pd Contacts to Templated Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2006, 6, 2712-2717.	9.1	31
113	Thermoelectric topping cycles for power plants to eliminate cooling water consumption. <i>Energy Conversion and Management</i> , 2014, 84, 244-252.	9.2	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, .	2.5	31
115	Dendrimer-assisted low-temperature growth of carbon nanotubes by plasma-enhanced chemical vapor deposition. <i>Chemical Communications</i> , 2006, , 2899.	4.1	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.	3.8	30
117	Isostaticity of constraints in amorphous jammed systems of soft frictionless Platonic solids. <i>Physical Review E</i> , 2011, 84, 030301.	2.1	30
118	Models for metal hydride particle shape, packing, and heat transfer. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13417-13428.	7.1	30
119	Variable-cell method for stress-controlled jamming of athermal, frictionless grains. <i>Physical Review E</i> , 2014, 89, 042203.	2.1	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.	5.1	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.	5.2	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.	2.8	29
123	Work function reduction of graphitic nanofibers by potassium intercalation. <i>Applied Physics Letters</i> , 2005, 87, 061501.	3.3	29
124	Low-voltage ionization of air with carbon-based materials. <i>Plasma Sources Science and Technology</i> , 2005, 14, 654-660.	3.1	29
125	In situ characterization of metal hydride thermal transport properties. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 614-621.	7.1	29
126	Charge storage in mesoscopic graphitic islands fabricated using AFM bias lithography. <i>Nanotechnology</i> , 2011, 22, 245302.	2.6	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, .	2.5	27
129	Dopant-vacancy binding effects in Li-doped magnesium hydride. Physical Review B, 2010, 82, .	3.2	27
130	Carbon nanowalls amplify the surface-enhanced Raman scattering from Ag nanoparticles. Nanotechnology, 2011, 22, 395704.	2.6	27
131	Experimental Characterization of Capillary-Fed Carbon Nanotube Vapor Chamber Wicks. Journal of Heat Transfer, 2013, 135, .	2.1	27
132	Carbon nanotube arrays decorated with multi-layer graphene-nanopetals enhance mechanical strength and durability. Carbon, 2015, 84, 236-245.	10.3	27
133	Influence of nanoscale geometry on the thermodynamics of electron field emission. Applied Physics Letters, 2001, 79, 3699-3701.	3.3	26
134	1kWe sodium borohydride hydrogen generation system. Journal of Power Sources, 2007, 170, 150-159.	7.8	26
135	Palladium Thiolate Bonding of Carbon Nanotube Thermal Interfaces. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.8	25
136	Metal functionalization of carbon nanotubes for enhanced sintered powder wicks. International Journal of Heat and Mass Transfer, 2013, 59, 372-383.	4.8	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.	4.8	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.	5.6	24
139	Advances in thermal conductivity for energy applications: a review. Progress in Energy, 2021, 3, 012002.	10.9	24
140	A Pulsed Source-Sink Fluid Mixing Device. Journal of Microelectromechanical Systems, 2006, 15, 259-266.	2.5	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.	3.1	23
142	Thermodynamics of hydrogen vacancies in MgH first-principles calculations and grand-canonical statistical mechanics. Physical Review B, 2009, 80, .	3.2	23
143	Cosmetically Adaptable Transparent Strain Sensor for Sensitively Delineating Patterns in Small Movements of Vital Human Organs. ACS Applied Materials & Interfaces, 2018, 10, 44126-44133.	8.0	23
144	Planar microscale ionization devices in atmospheric air with diamond-based electrodes. Plasma Sources Science and Technology, 2009, 18, 035004.	3.1	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.	2.5	22
147	Room-temperature ferromagnetism in graphitic petal arrays. Nanoscale, 2011, 3, 900.	5.6	22
148	Modeling of Polarization-Specific Phonon Transmission Through Interfaces. Journal of Heat Transfer, 2011, 133, .	2.1	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, .	3.3	22
151	Efficient Heat Transfer Approximation for the Chip-on-Substrate Problem. Journal of Electronic Packaging, Transactions of the ASME, 1996, 118, 271-279.	1.8	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.	3.1	21
154	Optimal shapes of fully embedded channels for conjugate cooling. IEEE Transactions on Advanced Packaging, 2001, 24, 555-562.	1.6	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.	3.9	20
158	Thermionic and Photo-Excited Electron Emission for Energy-Conversion Processes. Frontiers in Energy Research, 2014, 2, .	2.3	20
159	Effects of Graphene Nanopetal Outgrowths on Internal Thermal Interface Resistance in Composites. ACS Applied Materials & Interfaces, 2016, 8, 6678-6684.	8.0	20
160	Versatile technique for assessing thickness of 2D layered materials by XPS. Nanotechnology, 2018, 29, 115705.	2.6	20
161	PHOTOACOUSTIC TECHNIQUE FOR THERMAL CONDUCTIVITY AND THERMAL INTERFACE MEASUREMENTS. Annual Review of Heat Transfer, 2013, 16, 135-157.	1.0	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.	10.3	19
164	Independently addressable fields of porous anodic alumina embedded in SiO ₂ on Si. Applied Physics Letters, 2008, 92, 013122.	3.3	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.	3.1	18
166	Boron-carbon-nitrogen foam surfaces for thermal physisorption applications. Thin Solid Films, 2013, 528, 187-193.	1.8	18
167	Microscopic Evaluation of Electrical and Thermal Conduction in Random Metal Wire Networks. ACS Applied Materials & Interfaces, 2017, 9, 13703-13712.	8.0	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
169	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
170	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.	2.1	17
171	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
172	An atomistic study of thermal conductance across a metal-graphene nanoribbon interface. Journal of Applied Physics, 2011, 109, .	2.5	17
173	Phonon Transport Across Mesoscopic Constrictions. Journal of Heat Transfer, 2011, 133, .	2.1	17
174	Heat generation in all-solid-state supercapacitors with graphene electrodes and gel electrolytes. Electrochimica Acta, 2019, 303, 341-353.	5.2	17
175	Solar-Thermal Production of Graphitic Carbon and Hydrogen via Methane Decomposition. Energy & Fuels, 2022, 36, 3920-3928.	5.1	17
176	Simulation of refrigeration by electron emission across nanometer-scale gaps. Physical Review B, 2008, 77, .	3.2	16
177	Modeling of subcontinuum thermal transport across semiconductor-gas interfaces. Journal of Applied Physics, 2009, 106, .	2.5	16
178	Hardware-in-the-Loop Validation of Advanced Fuel Thermal Management Control. Journal of Thermophysics and Heat Transfer, 2017, 31, 901-909.	1.6	16
179	Experiments on Chimney-Enhanced Free Convection From Pin-Fin Heat Sinks. Journal of Electronic Packaging, Transactions of the ASME, 2000, 122, 350-355.	1.8	15
180	Analysis and simulation of anode heating due to electron field emission. IEEE Transactions on Components and Packaging Technologies, 2003, 26, 317-323.	1.3	15

#	ARTICLE	IF	CITATIONS
181	Numerical Simulation of Microscale Ion-Driven Air Flow. , 2003, , 303.		15
182	Correlating electrical resistance to growth conditions for multiwalled carbon nanotubes. Applied Physics Letters, 2007, 91, 093105.	3.3	15
183	Inkjet printing of palladium alkanethiolates for facile fabrication of metal interconnects and surface-enhanced Raman scattering substrates. Micro and Nano Letters, 2010, 5, 296.	1.3	15
184	Thermal Performance of Carbon Nanotube Enhanced Vapor Chamber Wicks. , 2010, , .		15
185	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.	2.3	15
186	<i>In Situ</i> Shape Control of Thermoplasmonic Gold Nanostars on Oxide Substrates for Hyperthermia-Mediated Cell Detachment. ACS Central Science, 2020, 6, 2105-2116.	11.3	15
187	Constrained optimal duct shapes for conjugate laminar forced convection. International Journal of Heat and Mass Transfer, 2000, 43, 113-126.	4.8	14
188	Application of the Lattice-Boltzmann Method to Sub-Continuum Heat Conduction. , 2002, , 69.		14
189	Thermal Contact Conductance Enhancement With Carbon Nanotube Arrays. , 2004, , 559.		14
190	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.	2.8	14
191	Thermomechanical and Thermal Contact Characteristics of Bismuth Telluride Films Electrodeposited on Carbon Nanotube Arrays. Advanced Materials, 2009, 21, 4280-4283.	21.0	14
192	Optical properties of ordered carbon nanotube arrays grown in porous anodic alumina templates. Optics Express, 2013, 21, 22053.	3.4	14
193	Estimation of parameters in thermal-field emission from diamond. Diamond and Related Materials, 2005, 14, 113-120.	3.9	13
194	Examining Interactions of HIV-1 Reverse Transcriptase with Single-stranded Template Nucleotides by Nucleoside Analog Interference. Journal of Biological Chemistry, 2006, 281, 27873-27881.	3.4	13
195	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
196	Vertical Carbon Nanotube Devices With Nanoscale Lengths Controlled Without Lithography. IEEE Nanotechnology Magazine, 2009, 8, 469-476.	2.0	13
197	Thermal and Electrical Conductivities of Nanocrystalline Nickel Microbridges. Journal of Microelectromechanical Systems, 2012, 21, 850-858.	2.5	13
198	Carbon Nanotube Arrays for Enhanced Thermal Interfaces to Thermoelectric Modules. Journal of Thermophysics and Heat Transfer, 2013, 27, 474-481.	1.6	13

#	ARTICLE	IF	CITATIONS
199	Time-dependent density functional theory of coupled electronic lattice motion in quasi-two-dimensional crystals. <i>Physical Review B</i> , 2014, 89, .	3.2	13
200	High exergetic modified Brayton cycle with thermoelectric energy conversion. <i>Applied Thermal Engineering</i> , 2017, 114, 1366-1371.	6.0	13
201	Dominant phonon polarization conversion across dimensionally mismatched interfaces: Carbon-nanotubeâ€“graphene junction. <i>Physical Review B</i> , 2018, 97, .	3.2	13
202	Rollâ€“toâ€“Roll Production of Graphitic Petals on Carbon Fiber Tow. <i>Advanced Engineering Materials</i> , 2018, 20, 1800004.	3.5	13
203	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
204	Vertical graphene nano-antennas for solar-to-hydrogen energy conversion. <i>Solar Energy</i> , 2020, 208, 379-387.	6.1	13
205	Enhanced Pool Boiling Using Carbon Nanotube Arrays on a Silicon Surface. , 2005, , 691.		12
206	Assemblies of Carbon Nanotubes and Unencapsulated Sub-10-nm Gold Nanoparticles. <i>Small</i> , 2007, 3, 1266-1271.	10.0	12
207	Direct simulation of ionization and ion transport for planar microscale ion generation devices. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 055203.	2.8	12
208	Methanol wetting enthalpy on few-layer graphene decorated hierarchical carbon foam for cooling applications. <i>Thin Solid Films</i> , 2014, 572, 169-175.	1.8	12
209	Heterogeneous Integration of a Fan-Out Wafer-Level Packaging Based Foldable Display on Elastomeric Substrate. , 2019, , .		12
210	Atomistic simulation of phonon and magnon thermal transport across the ferromagnetic-paramagnetic transition. <i>Physical Review B</i> , 2020, 101, .	3.2	12
211	Effects of package orientation and mixed convection on heat transfer from a PQFP. <i>IEEE Transactions on Components and Packaging Technologies</i> , 1997, 20, 152-159.	0.7	11
212	Field emitter using multiwalled carbon nanotubes grown on the silicon tip region by microwave plasma-enhanced chemical vapor deposition. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 391.	1.6	11
213	DC-65 GHz characterization of nanocrystalline diamond leaky film for reliable RF MEMS switches. , 2005, , .		11
214	Carbon Nanotube Array Thermal Interfaces Enhanced With Paraffin Wax. , 2008, , .		11
215	Linear Coefficient of Thermal Expansion of Porous Anodic Alumina Thin Films from Atomic Force Microscopy. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2009, 13, 243-252.	2.6	11
216	Anti-Stokes fluorescence imaging of microscale thermal fields in thin films. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	11

#	ARTICLE	IF	CITATIONS
217	Development of Micro/Nano Engineered Wick-Based Passive Heat Spreaders for Thermal Management of High Power Electronic Devices. , 2011, , .		11
218	Reactive Hot Pressing and Properties of Zr _{1-x} Ti _x B ₂ ZrC Composites. Journal of the American Ceramic Society, 2015, 98, 711-716.	3.8	11
219	Slow creep in soft granular packings. Soft Matter, 2017, 13, 3411-3421.	2.7	11
220	Thermal boundary resistance predictions with non-equilibrium Green's function and molecular dynamics simulations. Applied Physics Letters, 2019, 115, .	3.3	11
221	Laser writing of electronic circuitry in thin film molybdenum disulfide: A transformative manufacturing approach. Materials Today, 2021, 43, 17-26.	14.2	11
222	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
223	Field emission from GaN and (Al,Ga)N-GaN nanorod heterostructures. Journal of Vacuum Science & Technology B, 2007, 25, L15.	1.3	10
224	Electrothermal Bonding of Carbon Nanotubes to Glass. Journal of the Electrochemical Society, 2008, 155, K161.	2.9	10
225	Synthesis and Application of Quantum Dot-Tagged Fluorescent Microbeads. Journal of Nanoscience and Nanotechnology, 2008, 8, 1138-1149.	0.9	10
226	Design and Validation of a High-Temperature Thermal Interface Resistance Measurement System. Journal of Thermal Science and Engineering Applications, 2016, 8, .	1.5	10
227	Generalized Compact Modeling of Nanoparticle-Based Amperometric Glucose Biosensors. IEEE Transactions on Electron Devices, 2016, 63, 4924-4932.	3.0	10
228	Decomposition of the Thermal Boundary Resistance across Carbon Nanotube-Graphene Junctions to Different Mechanisms. ACS Applied Materials & Interfaces, 2018, 10, 15226-15231.	8.0	10
229	Ragone Relations for Thermal Energy Storage Technologies. Frontiers in Mechanical Engineering, 2019, 5, .	1.8	10
230	Experimental Study of Energy Exchange Attending Electron Emission from Carbon Nanotubes. Heat Transfer Engineering, 2008, 29, 395-404.	1.9	9
231	Self-assembled CNT circuits with ohmic contacts using Pd hexadecanethiolate as in situ solder. Nanoscale, 2009, 1, 271.	5.6	9
232	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
233	Combined Microstructure and Heat Conduction Modeling of Heterogeneous Interfaces and Materials. Journal of Heat Transfer, 2013, 135, .	2.1	9
234	Influence of Temperature on Supercapacitor Performance. SpringerBriefs in Applied Sciences and Technology, 2015, , 71-114.	0.4	9

#	ARTICLE	IF	CITATIONS
235	Scalable Coating of Single-Source Nickel Hexadecanethiolate Precursor on 3D Graphitic Petals for Asymmetric Supercapacitors. <i>Energy Technology</i> , 2017, 5, 740-746.	3.8	9
236	Dynamic Thermal Management Of Silicon Interconnect Fabric Using Flash Cooling. , 2019, , .		9
237	Thermal conductance at nanoscale amorphous boron nitride/metal interfaces. <i>Surface and Coatings Technology</i> , 2020, 397, 126017.	4.8	9
238	Analysis of the role of the HIF hydroxylase family members in erythropoiesis. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 683-688.	2.1	8
239	Carbon nanotube thermal interfaces on gadolinium foil. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 6716-6722.	4.8	8
240	Flash boiling from carbon foams for high-heat-flux transient cooling. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	8
241	Response of Phase-Change-Material-Filled Porous Foams Under Transient Heating Conditions. <i>Journal of Thermophysics and Heat Transfer</i> , 2016, 30, 880-889.	1.6	8
242	Brazed Carbon Nanotube Arrays: Decoupling Thermal Conductance and Mechanical Rigidity. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601042.	3.7	8
243	PowerTherm Attach Process for Power Delivery and Heat Extraction in the Silicon-Interconnect Fabric Using Thermocompression Bonding. , 2019, , .		8
244	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
245	Accurate Thermal Diffusivity Measurements Using a Modified Ångström's Method With Bayesian Statistics. <i>Journal of Heat Transfer</i> , 2020, 142, .	2.1	8
246	Enhanced thermal transport and corrosion resistance by coating vertically-aligned graphene on zirconium alloy for nuclear reactor applications. <i>Applied Surface Science</i> , 2022, 582, 152484.	6.1	8
247	Transient thermal response due to periodic heating on a convectively cooled substrate. <i>IEEE Transactions on Advanced Packaging</i> , 1996, 19, 255-262.	0.6	7
248	Thermal modeling of single event burnout failure in semiconductor power devices. <i>Microelectronics Reliability</i> , 2001, 41, 571-578.	1.7	7
249	Numerical Simulation of Microscale Ionic Wind for Local Cooling Enhancement. , 0, , .		7
250	Influence of Bias-Enhanced Nucleation on Thermal Conductance Through Chemical Vapor Deposited Diamond Films. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2008, 31, 46-53.	1.3	7
251	Preferential Biofunctionalization of Carbon Nanotubes Grown by Microwave Plasma-Enhanced CVD. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9596-9602.	3.1	7
252	Shot Noise Thermometry for Thermal Characterization of Templated Carbon Nanotubes. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2010, 33, 178-183.	1.3	7

#	ARTICLE	IF	CITATIONS
253	Conduction in Jammed Systems of Tetrahedra. Journal of Heat Transfer, 2013, 135, .	2.1	7
254	Electroreflectance imaging of goldâ€H₃PO₄ supercapacitors. Part I: experimental methodology. Analyst, The, 2016, 141, 1448-1461.	3.5	7
255	Combined Microstructure and Heat Transfer Modeling of Carbon Nanotube Thermal Interface Materials1. Journal of Heat Transfer, 2016, 138, .	2.1	7
256	Magnetothermoelectric effects in graphene and their dependence on scatterer concentration, magnetic field, and band gap. Journal of Applied Physics, 2017, 121, 125113.	2.5	7
257	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.	4.8	7
258	Transient Self-Heating at Nanowire Junctions in Silver Nanowire Network Conductors. IEEE Nanotechnology Magazine, 2018, 17, 1171-1180.	2.0	7
259	Bias effects on wear and corrosion behavior of amorphous hydrogenated carbon films with zirconia interlayer. Surface and Coatings Technology, 2018, 350, 603-620.	4.8	7
260	Discharge regimes and emission characteristics of capacitively coupled radio frequency argon plasma with a square wave input. Journal of Applied Physics, 2019, 125, .	2.5	7
261	Photonically excited electron emission from modified graphitic nanopetal arrays. Journal of Applied Physics, 2013, 113, 193710.	2.5	6
262	Growth of contiguous graphite fins from thermally conductive graphite fibers. Carbon, 2014, 69, 424-436.	10.3	6
263	Suggested standards for reporting power and energy density in supercapacitor research. Bulletin of Materials Science, 2018, 41, 1.	1.7	6
264	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.	19.5	6
265	Simulation of Single-Event Failure in Power Diodes. , 2002, , .		6
266	Effects of wind tunnel orientation and mixed convection on heat transfer from a PQFP. , 0, , .		5
267	Thermal Analysis and Optimization of Substrates With Directionally Enhanced Conductivities. Journal of Electronic Packaging, Transactions of the ASME, 1997, 119, 64-72.	1.8	5
268	Synthesis and thermionic emission properties of graphitic carbon nanofibres supported on Si wafers or carbon felt. Nanotechnology, 2007, 18, 325606.	2.6	5
269	Laser Diagnostics of Plasma in Synthesis of Graphene-Based Materials. Journal of Micro and Nano-Manufacturing, 2014, 2, .	0.7	5
270	Modeling Thermal Storage in Wax-Impregnated Foams with a Pore-Scale Submodel. Journal of Thermophysics and Heat Transfer, 2015, 29, 812-819.	1.6	5

#	ARTICLE	IF	CITATIONS
271	Thermal Management in Electrochemical Energy Storage Systems. SpringerBriefs in Applied Sciences and Technology, 2015, , 1-10.	0.4	5
272	Optical properties of thin graphitic nanopetal arrays. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 158, 84-90.	2.3	5
273	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, .	1.4	5
274	Thermal boundary conductance across Co/Cu interfaces with spinâ€ˆlattice interactions. Journal of Applied Physics, 2021, 130, 235108.	2.5	5
275	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.	2.8	4
276	New approaches for error estimation and adaptivity for 2D potential boundary element methods. International Journal for Numerical Methods in Engineering, 2003, 56, 117-144.	2.8	4
277	Experimental Characterization of Low Voltage Field Emission From Carbon-Based Cathodes in Atmospheric Air. , 2003, , 199.		4
278	Performance of Thermal Enhancement Materials in High Pressure Metal Hydride Storage Systems. , 2008, , .		4
279	Solution-processed soldering of carbon nanotubes for flexible electronics. Nanotechnology, 2013, 24, 075301.	2.6	4
280	Length and temperature dependent 1/f noise in vertical single-walled carbon nanotube arrays. Journal of Applied Physics, 2013, 113, .	2.5	4
281	Flash Boiling and Desorption From a Macroporous Carbon-Boron-Nitrogen Foam. , 2013, , .		4
282	A Model Predictive Framework for Thermal Management of Aircraft. , 2015, , .		4
283	Guidance of cell adhesion and migration by graphitic nanopetals on carbon fibers. Materials Letters, 2016, 184, 211-215.	2.6	4
284	Experimental characterization of dynamic heat exchanger behavior. International Journal of Heat and Mass Transfer, 2018, 121, 933-942.	4.8	4
285	Bypass, Loss, and Heat Transfer in Aircraft Surface Coolers. Frontiers in Mechanical Engineering, 2019, 5, .	1.8	4
286	Photoconductivity calculations of bilayer graphene from first principles and deformation-potential approach. Physical Review B, 2020, 101, .	3.2	4
287	Rapid Analytical Instrumentation for Electrochemical Impedance Spectroscopy Measurements. Journal of the Electrochemical Society, 2020, 167, 027545.	2.9	4
288	High-Temperature Thermal Diffusivity Measurements Using a Modified Å…ngstrÅ…m's Method With Transient Infrared Thermography. Journal of Heat Transfer, 2022, 144, .	2.1	4

#	ARTICLE	IF	CITATIONS
289	Analysis and optimization of a natural draft heat sink system. , 0, , .		3
290	A new variational self-regular traction-BEM formulation for inter-element continuity of displacement derivatives. Computational Mechanics, 2003, 32, 401-414.	4.0	3
291	Growth of Single-Walled Carbon Nanotubes by Microwave Plasma Enhanced Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2004, 858, 119.	0.1	3
292	Simulation of Thermionic Emission From a Quantum Wire Using the Non-Equilibrium Greenâ€™s Function Method. , 2004, , 53.		3
293	Design, Synthesis, and Performance of a Carbon Nanotube/Metal Foil Thermal Interface Material. , 2007, , .		3
294	Ionic Winds for Enhanced Cooling in Portable Platforms. , 2008, , .		3
295	Effect of Phonon Dispersion on Thermal Conduction Across Si/Ge Interfaces. , 2009, , .		3
296	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
297	Electroreflectance imaging of gold-H3PO4 supercapacitors. Part II: microsupercapacitor ageing characterization. Analyst, The, 2016, 141, 1462-1471.	3.5	3
298	Work Function Characterization of Potassium-Intercalated, Boron Nitride Doped Graphitic Petals. Frontiers in Mechanical Engineering, 2017, 3, .	1.8	3
299	High-throughput transient thermal interface testing method using time-domain thermal response. International Journal of Heat and Mass Transfer, 2018, 127, 228-233.	4.8	3
300	Control-Oriented Modeling of Integrated Flash Boiling for Rapid Transient Heat Dissipation. Journal of Thermophysics and Heat Transfer, 2019, 33, 817-829.	1.6	3
301	DSMC Simulation of Ion Generation in Atmospheric Air. , 2003, , .		3
302	Thermal Management Analysis of On-Board High-Pressure Metal Hydride Systems. , 2006, , .		3
303	Direct Simulation Monte Carlo Analysis of Microscale Field Emission and Ionization of Atmospheric Air. , 2006, , .		3
304	Thermal Modeling of Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , 115-141.	0.4	3
305	Concentrated solar-thermal methane pyrolysis in a porous substrate: Yield analysis via infrared laser absorption. Proceedings of the Combustion Institute, 2023, 39, 5581-5589.	3.9	3
306	Experiments on low velocity cooling of high conductivity substrates. IEEE Transactions on Components and Packaging Technologies, 1999, 22, 307-315.	1.3	2

#	ARTICLE	IF	CITATIONS
307	A computational study of gas phase chemistry in carbon nanotube synthesis by PECVD. , 0, ,		2
308	Numerical Simulation of Gas Phase Reaction Chemistry in Methane-Hydrogen Mixtures. , 2003, , 899.		2
309	Simulation of Phonon Interfacial Transport in Strained Silicon-Germanium Heterostructures. , 2005, , 683.		2
310	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.	4.8	2
311	Flow boiling in a micro-channel coated with carbon nanotubes. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, ,	0.0	2
312	Electrothermally bonded carbon nanotube interfaces. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, ,	0.0	2
313	Thermal Transport in Finite-Sized Nanocomposites. , 2008, ,		2
314	Quasi-static Compaction of Polyhedra by the Discrete Element Method. , 2009, ,		2
315	Analysis of Visible Radiative Properties of Vertically Aligned Multi-Walled Carbon Nanotubes. , 2010, ,		2
316	Chemically B-N Modified Activated Carbon and its Thermal Stability and Desorption Enthalpy With Methanol. , 2012, ,		2
317	Dynamic Thermal Management for Aerospace Technology: A Review and Outlook. , 2015, ,		2
318	Nanoelectronics: Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics (Adv. Funct. Mater. 16/2016). Advanced Functional Materials, 2016, 26, 2771-2771.	14.9	2
319	Thermal conduction in graphite flake-epoxy composites using infrared microscopy. , 2017, ,		2
320	Experimental demonstration of pressure-driven flash boiling for transient two-phase cooling. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, , 1-1.	2.5	2
321	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, ,	2.1	2
322	Analysis and simulation of anode heating from electron field emission. , 0, ,		1
323	EXPERIMENTAL CHARACTERIZATION OF ANODE HEATING DUE TO ELECTRON FIELD EMISSION. Microscale Thermophysical Engineering, 2004, 8, 101-109.	1.2	1
324	Heat of Reaction Measurements of Sodium Borohydride Alcoholysis. , 2005, , 65.		1

#	ARTICLE	IF	CITATIONS
325	Analysis and simulation of refrigeration by electron emission. , 0, , .		1
326	Thermionic Emission From Alkali Potassium-Intercalated Carbon Nanotube Arrays for Direct Energy Conversion. , 2007, , 87.		1
327	Thermionic Emission From Potassium-Intercalated Carbon Nanotube Arrays. , 2007, , .		1
328	Physics based models for metal hydride particle morphology, distribution, and effective thermal conductivity. Materials Research Society Symposia Proceedings, 2009, 1172, 106.	0.1	1
329	Characterization of Metallically Bonded Carbon Nanotube-Based Thermal Interface Materials Using a High Accuracy 1D Steady-State Technique. , 2011, , .		1
330	Modified Magnesium Hydride and Calcium Borohydride for High-Capacity Thermal Energy Storage. , 2011, , .		1
331	Micro-Patterned Substrates With Nano-Scale Elements for Pool Boiling. , 2011, , .		1
332	Frequency Resolved Phonon Transport in Si/Ge Nanocomposites. , 2011, , .		1
333	Thermal Radiative Properties of Vertical Graphitic Petal Arrays. , 2012, , .		1
334	Microstructure-Dependent Heat Transfer Modeling of Carbon Nanotube Arrays for Thermal Interface Applications. , 2013, , .		1
335	Effect of Gamma-Ray Irradiation on the Thermal Contact Conductance of Carbon Nanotube Thermal Interface Materials. , 2013, , .		1
336	nanoHUB-U: A science gateway ventures into structured online education. , 2013, , .		1
337	Shear-induced failure in jammed nanoparticle assemblies. , 2013, , .		1
338	Simulation of thermal storage in wax-impregnated porous foams with a pore-scale submodel. , 2014, , .		1
339	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
340	Influence of Temperature on Supercapacitor Components. SpringerBriefs in Applied Sciences and Technology, 2015, , 27-69.	0.4	1
341	Rapid colorimetric analysis of graphene on copper. Corrosion Science, 2018, 138, 319-325.	6.6	1
342	Segmented Thermal Management with Flash Cooling for Heterogeneous Wafer-Scale Systems. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
343	Numerical Simulation of Hydrocarbon-Hydrogen Reaction Chemistry in a CVD Reactor. , 2003, , .		1
344	Effects of Carbon Nanotube Structure on Protein Adsorption. , 2005, , .		1
345	Palladium Thiolate Bonding of Carbon Nanotube Thermal Interfaces for High-Temperature Electronics. , 2009, , .		1
346	Heat Transfer in High-Pressure Metal Hydride Systems. Journal of Enhanced Heat Transfer, 2009, 16, 189-203.	1.1	1
347	Electron Transport and Anode Heating Due to Field Emission From Carbon Nanotubes. , 2002, , .		1
348	Thermal Modeling of a Sodium Borohydride-Based Hydrogen Storage System. , 2005, , .		1
349	Effect of DC Bias on Microwave Plasma Enhanced Chemical Vapor Deposition Synthesis of Single-Walled Carbon Nanotubes. , 2005, , .		1
350	External Forced Convection Enhancement Using a Corona Discharge. , 2007, , .		1
351	Direct Growth of Few-Layer Graphene on Silicon Carbide: Fast Deposition at Moderate Temperature. Graphene, 2015, 3, 44-50.	0.2	1
352	Modeling of Supercritical Co ₂ Shell-and-Tube Heat Exchangers Under Extreme Conditions. Part 2: Heat Exchanger Model. Journal of Heat Transfer, 2022, , .	2.1	1
353	Modeling of Supercritical Co ₂ Shell-and-Tube Heat Exchangers Under Extreme Conditions. Part 1: Correlation Development. Journal of Heat Transfer, 2022, , .	2.1	1
354	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.	1.3	1
355	Thermodynamic characterization of a diamond-based electron emitter. AIP Conference Proceedings, 2000, , .	0.4	0
356	Analysis of a Diamond-Based Solar-Thermionic Power Generation System. , 2002, , .		0
357	Thermal-Field Electron Emission from Nanostructured CVD Diamond Films. , 2002, , .		0
358	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.	2.8	0
359	Thermionic Electron Emission From Nanostructured Diamond. , 2003, , 431.		0
360	Experimental Characterization of Anode Heating Due to Electron Emission From an Individual Carbon Nanotube. , 2004, , 321.		0

#	ARTICLE	IF	CITATIONS
361	Thermionic Emission Energy Distributions From Nanocrystalline Diamond. , 2004, , 533.		0
362	Simulation of Thermionic Emission from Quantum Wires. , 2004, , 65.		0
363	Parametric Study of a Thermosyphon Loop Pressure Drop Model. , 2004, , 407.		0
364	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.	3.7	0
365	Enhanced interfacial transport using carbon nanotube arrays. , 0, , .		0
366	Modeling of a Packed-Bed Reactor in a Sodium Borohydride Hydrogen Storage System. , 0, , .		0
367	Thermionic Energy Conversion with Nanoscale Materials and Devices. AIP Conference Proceedings, 2006, , .	0.4	0
368	Influence of Bias-enhanced nucleation on thermal conductance through plasma-enhanced chemical vapor deposited diamond films. , 0, , .		0
369	Thermal Contact Resistance of a Silicon Nanowire on a Substrate. , 2007, , 1007.		0
370	Thermal Interface Materials Based on Anchored Carbon Nanotubes. , 0, , .		0
371	Shot noise thermometry with carbon nanotubes. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , .	0.0	0
372	Photo- and Thermionic Emission From Potassium-Intercalated Single-Walled Carbon Nanotube Arrays. , 2008, , .		0
373	Modeling of Polarization-Specific Phonon Transmission Functions Through Interfaces. , 2008, , .		0
374	Biosensor Capture Kinetics Model of Nanocube-Augmented Carbon Nanotube Networks. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
375	Boltzmann Transport Equation Simulation of Semiconductor Interfacial Heat Transfer Based on Input from the Atomistic Green's Function Method. Materials Research Society Symposia Proceedings, 2009, 1172, 95.	0.1	0
376	Improved Efficiency of Dye Sensitized Solar Cells Using Aligned Carbon Nanotubes. , 2009, , .		0
377	Simulation of Phonon Transmission Through Graphene With a Green's Function Method. , 2009, , .		0
378	Thermal Conductance and Constriction Resistance of Single-Layer Graphene Nano Ribbons. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
379	Carbon Nanotube Interfaces for Magneto Thermoelectric Actuation. , 2010, , .		0
380	Enhanced Control of Single-Walled Carbon Nanotube Properties Using MPCVD with DC Electrical Bias. , 2011, , .		0
381	Thermal Conductivity Reduction in Few-Layer Graphene. , 2011, , .		0
382	Spectral Detail of Phonon Conduction and Scattering in Graphene. , 2011, , .		0
383	Low-Frequency Electrical Noise Thermometry for Micro- and Nano-Scale Devices. , 2011, , .		0
384	Predicting the Properties of Nanostructured Metamaterials: Vertically Aligned Single-Walled Carbon Nanotube Arrays. , 2011, , .		0
385	Effects of UV-Visible Irradiation on Pool Boiling Behavior of Copper. , 2011, , .		0
386	Carbon Nanotube Arrays for Enhanced Thermal Interfaces to Thermoelectric Modules. , 2012, , .		0
387	Laser Diagnostics of Plasma in Synthesis of Graphene-Based Materials. , 2013, , .		0
388	Hydrophilic CNT-Sintered Copper Composite Wick for Enhanced Cooling. , 2014, , 267-288.		0
389	Hydrophilic CNT-Sintered Copper Composite Wick for Enhanced Cooling. , 2014, , 267-288.		0
390	HYDROPHILIC CNT-SINTERED COPPER COMPOSITE WICK FOR ENHANCED COOLING. WSPC Series in Advanced Integration and Packaging, 2014, , 307-331.	0.0	0
391	A Network Model for the Thermal Conductivity of Pillared-Graphene Architectures. , 2014, , .		0
392	Enhancement and Optimization of Planar Impingement Heat Transfer for Thermoelectric Power Generation. , 2015, , .		0
393	Contemporary Challenges for Thermal and Mass Transport Technologies: A Perspective on Twenty-First Century Opportunities for the Field. Frontiers in Mechanical Engineering, 2016, 2, .	1.8	0
394	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
395	Nanomaterials for Clean Energy and Environmental Sensors: An Indiaâ€™U.S. Workshop. ACS Energy Letters, 2017, 2, 1137-1138.	17.4	0
396	Plasma Chemical and Physical Vapour Deposition Methods and Diagnostics for 2D Materials. , 2017, , 275-315.		0

#	ARTICLE	IF	CITATIONS
397	Modeling of Capacitively Coupled Rf Discharge With Non-Sinusoidal Current Waveform. , 2017, , .		0
398	A Letter to the Members of the Heat Transfer Community. Journal of Heat Transfer, 2018, 140, .	2.1	0
399	Combined Plant and Control Design for a Flash Boiling Cooling System. , 2019, , .		0
400	Damping of oscillatory temperature profiles with a thermal storage device. , 2021, , .		0
401	Modeling of Carbon Nanotube Emission Using Airy Functions. , 2003, , .		0
402	Numerical Simulation of Gas Phase Growth Environment of Carbon Nanotube Synthesis by Plasma-Enhanced Chemical Vapor Deposition. , 2005, , .		0
403	The Effects of Process Parameters on Carbon Nanotube Synthesis by Plasma Enhanced Chemical Vapor Deposition (PECVD). , 2005, , .		0
404	Aluminum Foil/Carbon Nanotube Thermal Interface Materials. , 2007, , .		0
405	Carbon Nanotube Array Thermal Interfaces on Chemical Vapor Deposited Diamond. , 2007, , .		0
406	Heat Conduction in Metal Hydride Nano-Particles. , 2007, , .		0
407	Online Thermal Properties Database for Structure-Property Correlated Materials. , 2011, , .		0
408	Correlation of Electrochemical Impedance to Pool Boiling Behavior on Copper. , 2011, , .		0
409	Thermal Considerations for Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , 11-26.	0.4	0
410	10.1063/1.4958117.1. , 2016, , .		0