Timothy S Fisher

List of Publications by Year
in descending order

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200 papers	8,688 citations	53794 45 h-index	49909 87 g-index
201 all docs	201 docs citations	201 times ranked	10786 citing authors

#	Article	IF	Citations
1	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	12.6	429
2	Enhancement of thermal interface materials with carbon nanotube arrays. International Journal of Heat and Mass Transfer, 2006, 49, 1658-1666.	4.8	426
3	Nanoscale design to enable the revolution in renewable energy. Energy and Environmental Science, 2009, 2, 559.	30.8	348
4	A Review of Grapheneâ€Based Electrochemical Microsupercapacitors. Electroanalysis, 2014, 26, 30-51.	2.9	317
5	Graphene-based hybrid materials and devices for biosensing. Advanced Drug Delivery Reviews, 2011, 63, 1352-1360.	13.7	267
6	Electrochemical Biosensor of Nanocube-Augmented Carbon Nanotube Networks. ACS Nano, 2009, 3, 37-44.	14.6	242
7	3-Omega Measurements of Vertically Oriented Carbon Nanotubes on Silicon. Journal of Heat Transfer, 2006, 128, 1109-1113.	2.1	212
8	Photoacoustic characterization of carbon nanotube array thermal interfaces. Journal of Applied Physics, 2007, 101, 054313.	2.5	208
9	Nanostructuring Platinum Nanoparticles on Multilayered Graphene Petal Nanosheets for Electrochemical Biosensing. Advanced Functional Materials, 2012, 22, 3399-3405.	14.9	199
10	MnO2-coated graphitic petals for supercapacitor electrodes. Journal of Power Sources, 2013, 227, 254-259.	7.8	195
11	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. Carbon, 2015, 93, 659-670.	10.3	182
12	Hyperbolically Patterned 3D Graphene Metamaterial with Negative Poisson's Ratio and Superelasticity. Advanced Materials, 2016, 28, 2229-2237.	21.0	178
13	A Review of Heat Transfer Issues in Hydrogen Storage Technologies. Journal of Heat Transfer, 2005, 127, 1391-1399.	2.1	164
14	Bioinspired leaves-on-branchlet hybrid carbon nanostructure for supercapacitors. Nature Communications, 2018, 9, 790.	12.8	154
15	Hierarchical Niâ€“Co Hydroxide Petals on Mechanically Robust Graphene Petal Foam for Highâ€Energy Asymmetric Supercapacitors. Advanced Functional Materials, 2016, 26, 5460-5470.	14.9	151
16	Graphitic Petal Electrodes for Allâ€Solidâ€State Flexible Supercapacitors. Advanced Energy Materials, 2014, 4, 1300515.	19.5	147
17	Ionic winds for locally enhanced cooling. Journal of Applied Physics, 2007, 102, .	2.5	145
18	Increased real contact in thermal interfaces: A carbon nanotube/foil material. Applied Physics Letters, 2007, 90, 093513.	3.3	144

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19	Mechanism of thermal conductivity reduction in few-layer graphene. Journal of Applied Physics, 2011, 110, .	2.5	135
20	Enhancement of external forced convection by ionic wind. International Journal of Heat and Mass Transfer, 2008, 51, 6047-6053.	4.8	131
21	Extraordinary Sensitivity of the Electronic Structure and Properties of Single-Walled Carbon Nanotubes to Molecular Charge-Transfer. Journal of Physical Chemistry C, 2008, 112, 13053-13056.	3.1	128
22	Contact mechanics and thermal conductance of carbon nanotube array interfaces. International Journal of Heat and Mass Transfer, 2009, 52, 3490-3503.	4.8	127
23	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.	10.3	101
24	Parametric study of synthesis conditions in plasma-enhanced CVD of high-quality single-walled carbon nanotubes. Carbon, 2006, 44, 10-18.	10.3	98
25	Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics. Advanced Functional Materials, 2016, 26, 2640-2647.	14.9	90
26	Synthesis of few-layer, large area hexagonal-boron nitride by pulsed laser deposition. Thin Solid Films, 2014, 572, 245-250.	1.8	85
27	Optical properties of ordered vertical arrays of multi-walled carbon nanotubes from FDTD simulations. Optics Express, 2010, 18, 6347.	3.4	82
28	Thermal transport across metal silicide-silicon interfaces: First-principles calculations and Green's function transport simulations. Physical Review B, 2017, 95, .	3.2	76
29	Effects of a carbon nanotube layer on electrical contact resistance between copper substrates. Nanotechnology, 2006, 17, 2294-2303.	2.6	74
30	Measurement of metal/carbon nanotube contact resistance by adjusting contact length using laser ablation. Nanotechnology, 2008, 19, 125703.	2.6	70
31	Microwaveâ€Assisted Surface Synthesis of a Boronâ€“Carbonâ€“Nitrogen Foam and its Desorption Enthalpy. Advanced Functional Materials, 2012, 22, 3682-3690.	14.9	69
32	Pool Boiling Performance Comparison of Smooth and Sintered Copper Surfaces with and Without Carbon Nanotubes. Nanoscale and Microscale Thermophysical Engineering, 2011, 15, 133-150.	2.6	67
33	Flyweight 3D Graphene Scaffolds with Microinterface Barrier-Derived Tunable Thermal Insulation and Flame Retardancy. ACS Applied Materials & Interfaces, 2017, 9, 14232-14241.	8.0	67
34	Graphene: An effective oxidation barrier coating for liquid and two-phase cooling systems. Corrosion Science, 2013, 69, 5-10.	6.6	64
35	Dendrimer-assisted controlled growth of carbon nanotubes for enhanced thermal interface conductance. Nanotechnology, 2007, 18, 385303.	2.6	60
36	Scalable Production of Integrated Graphene Nanoarchitectures for Ultrafast Solar-Thermal Conversion and Vapor Generation. Matter, 2019, 1, 1017-1032.	10.0	60

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37	Vertical single- and double-walled carbon nanotubes grown from modified porous anodic alumina templates. Nanotechnology, 2006, 17, 3925-3929.	2.6	59
38	Contiguous Petal-like Carbon Nanosheet Outgrowths from Graphite Fibers by Plasma CVD. ACS Applied Materials & Interfaces, 2010, 2, 644-648.	8.0	58
39	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
40	Graphene nanopetal wire supercapacitors with high energy density and thermal durability. Nano Energy, 2017, 38, 127-136.	16.0	58
41	Simulation of phonon transmission through graphene and graphene nanoribbons with a Greenâ€™s function method. Journal of Applied Physics, 2010, 108, .	2.5	55
42	Electrochemical Glucose Biosensor of Platinum Nanospheres Connected by Carbon Nanotubes. Journal of Diabetes Science and Technology, 2010, 4, 312-319.	2.2	52
43	Thermal Effects in Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , .	0.4	50
44	Transforming the Fabrication and Biofunctionalization of Gold Nanoelectrode Arrays into Versatile Electrochemical Glucose Biosensors. ACS Applied Materials & Interfaces, 2011, 3, 1765-1770.	8.0	48
45	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, .	1.8	46
46	Effects of Growth Temperature on Carbon Nanotube Array Thermal Interfaces. Journal of Heat Transfer, 2008, 130, .	2.1	45
47	Graphitic Petal Microâ€Supercapacitor Electrodes for Ultraâ€High Power Density. Energy Technology, 2014, 2, 897-905.	3.8	45
48	Electron-phonon coupling and thermal conductance at a metal-semiconductor interface: First-principles analysis. Journal of Applied Physics, 2015, 117, .	2.5	45
49	Photo- and thermionic emission from potassium-intercalated carbon nanotube arrays. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 423-434.	1.2	44
50	Spectral phonon conduction and dominant scattering pathways in graphene. Journal of Applied Physics, 2011, 110, 094312.	2.5	44
51	Heterogeneous wetting surfaces with graphitic petal-decorated carbon nanotubes for enhanced flow boiling. International Journal of Heat and Mass Transfer, 2015, 87, 380-389.	4.8	44
52	Highly porous three-dimensional carbon nanotube foam as a freestanding anode for a lithium-ion battery. RSC Advances, 2016, 6, 79734-79744.	3.6	44
53	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.	2.6	43
54	Atomic Layer Deposition of FeO on Pt(111) by Ferrocene Adsorption and Oxidation. Chemistry of Materials, 2015, 27, 5915-5924.	6.7	43

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55	Effects of Carbon Nanotube-Tethered Nanosphere Density on Amperometric Biosensing: Simulation and Experiment. Journal of Physical Chemistry C, 2011, 115, 20896-20904.	3.1	42
56	Carbon Nanotube Array Thermal Interfaces for High-Temperature Silicon Carbide Devices. Nanoscale and Microscale Thermophysical Engineering, 2008, 12, 228-237.	2.6	40
57	Athermal jamming of soft frictionless Platonic solids. Physical Review E, 2010, 82, 051304.	2.1	39
58	Columnar order in jammed LiFePO4 cathodes: ion transport catastrophe and its mitigation. Physical Chemistry Chemical Physics, 2012, 14, 7040.	2.8	37
59	Synthesis of chemically bonded CNTâ€“graphene heterostructure arrays. RSC Advances, 2012, 2, 8250.	3.6	37
60	Reduced work function of graphene by metal adatoms. Applied Surface Science, 2017, 394, 98-107.	6.1	36
61	Active cooling of a metal hydride system for hydrogen storage. International Journal of Heat and Mass Transfer, 2010, 53, 1326-1332.	4.8	34
62	Controlled thin graphitic petal growth on oxidized silicon. Diamond and Related Materials, 2012, 27-28, 1-9.	3.9	34
63	Synthesis of Porous Niâ€“Coâ€“Mn Oxide Nanoneedles and the Temperature Dependence of Their Pseudocapacitive Behavior. Frontiers in Energy Research, 2015, 3, .	2.3	34
64	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
65	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. ACS Nano, 2019, 13, 13027-13036.	14.6	34
66	Flow Boiling in a Micro-Channel Coated With Carbon Nanotubes. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 639-649.	1.3	33
67	Au nanoparticles on graphitic petal arrays for surface-enhanced Raman spectroscopy. Applied Physics Letters, 2010, 97, 133108.	3.3	33
68	On the accuracy of classical and long wavelength approximations for phonon transport in graphene. Journal of Applied Physics, 2011, 110, .	2.5	33
69	Process optimization of graphene growth in a roll-to-roll plasma CVD system. AIP Advances, 2017, 7, .	1.3	33
70	Phonon-eigenspectrum-based formulation of the atomistic Green's function method. Physical Review B, 2017, 96, .	3.2	33
71	Freestanding vertically oriented single-walled carbon nanotubes synthesized using microwave plasma-enhanced CVD. Carbon, 2006, 44, 2758-2763.	10.3	32
72	Photonically enhanced flow boiling in a channel coated with carbon nanotubes. Applied Physics Letters, 2012, 100, .	3.3	32

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73	Improved Dehydrogenation Properties of Ti-Doped LiAlH4: Role of Ti Precursors. Journal of Physical Chemistry C, 2012, 116, 21886-21894.	3.1	32
74	Thermal transport across metal silicide-silicon interfaces: An experimental comparison between epitaxial and nonepitaxial interfaces. Physical Review B, 2017, 95, .	3.2	32
75	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.	8.0	32
76	Lithography-Free in Situ Pd Contacts to Templated Single-Walled Carbon Nanotubes. Nano Letters, 2006, 6, 2712-2717.	9.1	31
77	Thermoelectric topping cycles for power plants to eliminate cooling water consumption. Energy Conversion and Management, 2014, 84, 244-252.	9.2	31
78	Temporally and spatially resolved plasma spectroscopy in pulsed laser deposition of ultra-thin boron nitride films. Journal of Applied Physics, 2015, 117, .	2.5	31
79	Dendrimer-assisted low-temperature growth of carbon nanotubes by plasma-enhanced chemical vapor deposition. Chemical Communications, 2006, , 2899.	4.1	30
80	Isostaticity of constraints in amorphous jammed systems of soft frictionless Platonic solids. Physical Review E, 2011, 84, 030301.	2.1	30
81	Models for metal hydride particle shape, packing, and heat transfer. International Journal of Hydrogen Energy, 2012, 37, 13417-13428.	7.1	30
82	Variable-cell method for stress-controlled jamming of athermal, frictionless grains. Physical Review E, 2014, 89, 042203.	2.1	30
83	Symmetric All-Solid-State Supercapacitor Operating at 1.5 V Using a Redox-Active Gel Electrolyte. ACS Applied Energy Materials, 2018, 1, 5800-5809.	5.1	30
84	Harnessing the thermogalvanic effect of the ferro/ferricyanide redox couple in a thermally chargeable supercapacitor. Electrochimica Acta, 2018, 281, 357-369.	5.2	30
85	In situ characterization of metal hydride thermal transport properties. International Journal of Hydrogen Energy, 2010, 35, 614-621.	7.1	29
86	Charge storage in mesoscopic graphitic islands fabricated using AFM bias lithography. Nanotechnology, 2011, 22, 245302.	2.6	28
87	Simulation of thermal conductance across dimensionally mismatched graphene interfaces. Journal of Applied Physics, 2010, 108, .	2.5	27
88	Carbon nanowalls amplify the surface-enhanced Raman scattering from Ag nanoparticles. Nanotechnology, 2011, 22, 395704.	2.6	27
89	Experimental Characterization of Capillary-Fed Carbon Nanotube Vapor Chamber Wicks. Journal of Heat Transfer, 2013, 135, .	2.1	27
90	Carbon nanotube arrays decorated with multi-layer graphene-nanopetals enhance mechanical strength and durability. Carbon, 2015, 84, 236-245.	10.3	27

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91	Palladium Thiolate Bonding of Carbon Nanotube Thermal Interfaces. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.8	25
92	Metal functionalization of carbon nanotubes for enhanced sintered powder wicks. International Journal of Heat and Mass Transfer, 2013, 59, 372-383.	4.8	25
93	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
94	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
95	Toward surround gates on vertical single-walled carbon nanotube devices. Journal of Vacuum Science & Technology B, 2009, 27, 821.	1.3	22
96	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
97	Room-temperature ferromagnetism in graphitic petal arrays. Nanoscale, 2011, 3, 900.	5.6	22
98	Characterization and nanostructured enhancement of boiling incipience in capillary-fed, ultra-thin sintered powder wicks. , 2012, , .		22
99	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
100	Controlled Decoration of Single-Walled Carbon Nanotubes with Pd Nanocubes. Journal of Physical Chemistry C, 2007, 111, 13756-13762.	3.1	21
101	Thermionic emission from surface-terminated nanocrystalline diamond. Diamond and Related Materials, 2006, 15, 1601-1608.	3.9	20
102	Thermionic and Photo-Excited Electron Emission for Energy-Conversion Processes. Frontiers in Energy Research, 2014, 2, .	2.3	20
103	Effects of Graphene Nanopetal Outgrowths on Internal Thermal Interface Resistance in Composites. ACS Applied Materials & Interfaces, 2016, 8, 6678-6684.	8.0	20
104	Versatile technique for assessing thickness of 2D layered materials by XPS. Nanotechnology, 2018, 29, 115705.	2.6	20
105	Optimization of carbon nanotube synthesis from porous anodic Alâ€“Feâ€“Al templates. Carbon, 2007, 45, 2290-2296.	10.3	19
106	Independently addressable fields of porous anodic alumina embedded in SiO[sub 2] on Si. Applied Physics Letters, 2008, 92, 013122.	3.3	19
107	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.	3.1	18
108	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

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109	Heat generation in all-solid-state supercapacitors with graphene electrodes and gel electrolytes. Electrochimica Acta, 2019, 303, 341-353.	5.2	17
110	Solarâ€“Thermal Production of Graphitic Carbon and Hydrogen via Methane Decomposition. Energy & Fuels, 2022, 36, 3920-3928.	5.1	17
111	Modeling of subcontinuum thermal transport across semiconductor-gas interfaces. Journal of Applied Physics, 2009, 106, .	2.5	16
112	Hardware-in-the-Loop Validation of Advanced Fuel Thermal Management Control. Journal of Thermophysics and Heat Transfer, 2017, 31, 901-909.	1.6	16
113	Correlating electrical resistance to growth conditions for multiwalled carbon nanotubes. Applied Physics Letters, 2007, 91, 093105.	3.3	15
114	Thermal Performance of Carbon Nanotube Enhanced Vapor Chamber Wicks. , 2010, , .		15
115	Thermal Contact Conductance Enhancement With Carbon Nanotube Arrays. , 2004, , 559.		14
116	Thermomechanical and Thermal Contact Characteristics of Bismuth Telluride Films Electrodeposited on Carbon Nanotube Arrays. Advanced Materials, 2009, 21, 4280-4283.	21.0	14
117	Optical properties of ordered carbon nanotube arrays grown in porous anodic alumina templates. Optics Express, 2013, 21, 22053.	3.4	14
118	XPS and Raman characterization of single-walled carbon nanotubes grown from pretreated Fe₂O₃nanoparticles. Journal Physics D: Applied Physics, 2008, 41, 165306.	2.8	13
119	Thermal and Electrical Conductivities of Nanocrystalline Nickel Microbridges. Journal of Microelectromechanical Systems, 2012, 21, 850-858.	2.5	13
120	Carbon Nanotube Arrays for Enhanced Thermal Interfaces to Thermoelectric Modules. Journal of Thermophysics and Heat Transfer, 2013, 27, 474-481.	1.6	13
121	Rollâ€toâ€Roll Production of Graphitic Petals on Carbon Fiber Tow. Advanced Engineering Materials, 2018, 20, 1800004.	3.5	13
122	Continuous glucose monitoring with a flexible biosensor and wireless data acquisition system. Sensors and Actuators B: Chemical, 2018, 275, 237-243.	7.8	13
123	Vertical graphene nano-antennas for solar-to-hydrogen energy conversion. Solar Energy, 2020, 208, 379-387.	6.1	13
124	Assemblies of Carbon Nanotubes and Unencapsulated Sub-10-nm Gold Nanoparticles. Small, 2007, 3, 1266-1271.	10.0	12
125	Atomistic simulation of phonon and magnon thermal transport across the ferromagnetic-paramagnetic transition. Physical Review B, 2020, 101, .	3.2	12
126	Carbon Nanotube Array Thermal Interfaces Enhanced With Paraffin Wax. , 2008, , .		11

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127	Slow creep in soft granular packings. Soft Matter, 2017, 13, 3411-3421.	2.7	11
128	Thermal boundary resistance predictions with non-equilibrium Green's function and molecular dynamics simulations. Applied Physics Letters, 2019, 115, .	3.3	11
129	Electrothermal Bonding of Carbon Nanotubes to Glass. Journal of the Electrochemical Society, 2008, 155, K161.	2.9	10
130	Design and Validation of a High-Temperature Thermal Interface Resistance Measurement System. Journal of Thermal Science and Engineering Applications, 2016, 8, .	1.5	10
131	Generalized Compact Modeling of Nanoparticle-Based Amperometric Glucose Biosensors. IEEE Transactions on Electron Devices, 2016, 63, 4924-4932.	3.0	10
132	Ragone Relations for Thermal Energy Storage Technologies. Frontiers in Mechanical Engineering, 2019, 5, .	1.8	10
133	Experimental Study of Energy Exchange Attending Electron Emission from Carbon Nanotubes. Heat Transfer Engineering, 2008, 29, 395-404.	1.9	9
134	Self-assembled CNT circuits with ohmic contacts using Pd hexadecanethiolate as in situ solder. Nanoscale, 2009, 1, 271.	5.6	9
135	Catalytic influence of Ni-based additives on the dehydrogenation properties of ball milled MgH₂. Journal of Materials Research, 2011, 26, 2725-2734.	2.6	9
136	Combined Microstructure and Heat Conduction Modeling of Heterogeneous Interfaces and Materials. Journal of Heat Transfer, 2013, 135, .	2.1	9
137	Influence of Temperature on Supercapacitor Performance. SpringerBriefs in Applied Sciences and Technology, 2015, , 71-114.	0.4	9
138	Scalable Coating of Singleâ€Source Nickel Hexadecanethiolate Precursor on 3D Graphitic Petals for Asymmetric Supercapacitors. Energy Technology, 2017, 5, 740-746.	3.8	9
139	Thermal conductance at nanoscale amorphous boron nitride/metal interfaces. Surface and Coatings Technology, 2020, 397, 126017.	4.8	9
140	Carbon nanotube thermal interfaces on gadolinium foil. International Journal of Heat and Mass Transfer, 2012, 55, 6716-6722.	4.8	8
141	Response of Phase-Change-Material-Filled Porous Foams Under Transient Heating Conditions. Journal of Thermophysics and Heat Transfer, 2016, 30, 880-889.	1.6	8
142	Brazed Carbon Nanotube Arrays: Decoupling Thermal Conductance and Mechanical Rigidity. Advanced Materials Interfaces, 2017, 4, 1601042.	3.7	8
143	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.	7.8	8
144	Accurate Thermal Diffusivity Measurements Using a Modified Ã…ngstrÃ¶m's Method With Bayesian Statistics. Journal of Heat Transfer, 2020, 142, .	2.1	8

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145	Influence of Bias-Enhanced Nucleation on Thermal Conductance Through Chemical Vapor Deposited Diamond Films. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 46-53.	1.3	7
146	Preferential Biofunctionalization of Carbon Nanotubes Grown by Microwave Plasma-Enhanced CVD. Journal of Physical Chemistry C, 2010, 114, 9596-9602.	3.1	7
147	Shot Noise Thermometry for Thermal Characterization of Templated Carbon Nanotubes. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 178-183.	1.3	7
148	Conduction in Jammed Systems of Tetrahedra. Journal of Heat Transfer, 2013, 135, .	2.1	7
149	Electroreflectance imaging of goldâ€“H₃PO₄ supercapacitors. Part I: experimental methodology. Analyst, The, 2016, 141, 1448-1461.	3.5	7
150	Combined Microstructure and Heat Transfer Modeling of Carbon Nanotube Thermal Interface Materials1. Journal of Heat Transfer, 2016, 138, .	2.1	7
151	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
152	Photonically excited electron emission from modified graphitic nanopetal arrays. Journal of Applied Physics, 2013, 113, 193710.	2.5	6
153	Growth of contiguous graphite fins from thermally conductive graphite fibers. Carbon, 2014, 69, 424-436.	10.3	6
154	Synthesis and thermionic emission properties of graphitic carbon nanofibres supported on Si wafers or carbon felt. Nanotechnology, 2007, 18, 325606.	2.6	5
155	Laser Diagnostics of Plasma in Synthesis of Graphene-Based Materials. Journal of Micro and Nano-Manufacturing, 2014, 2, .	0.7	5
156	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
157	Thermal Management in Electrochemical Energy Storage Systems. SpringerBriefs in Applied Sciences and Technology, 2015, , 1-10.	0.4	5
158	Optical properties of thin graphitic nanopetal arrays. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 158, 84-90.	2.3	5
159	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
160	Thermal boundary conductance across Co/Cu interfaces with spinâ€“lattice interactions. Journal of Applied Physics, 2021, 130, 235108.	2.5	5
161	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
162	Length and temperature dependent 1/f noise in vertical single-walled carbon nanotube arrays. Journal of Applied Physics, 2013, 113, .	2.5	4

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163	Guidance of cell adhesion and migration by graphitic nanopetals on carbon fibers. Materials Letters, 2016, 184, 211-215.	2.6	4
164	Rapid Analytical Instrumentation for Electrochemical Impedance Spectroscopy Measurements. Journal of the Electrochemical Society, 2020, 167, 027545.	2.9	4
165	High-Temperature Thermal Diffusivity Measurements Using a Modified Ã…ngstrÃ¶m's Method With Transient Infrared Thermography. Journal of Heat Transfer, 2022, 144, .	2.1	4
166	Design, Synthesis, and Performance of a Carbon Nanotube/Metal Foil Thermal Interface Material. , 2007, , .		3
167	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
168	Electroreflectance imaging of gold-H3PO4 supercapacitors. Part II: microsupercapacitor ageing characterization. Analyst, The, 2016, 141, 1462-1471.	3.5	3
169	Work Function Characterization of Potassium-Intercalated, Boron Nitride Doped Graphitic Petals. Frontiers in Mechanical Engineering, 2017, 3, .	1.8	3
170	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
171	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
172	Thermal Management Analysis of On-Board High-Pressure Metal Hydride Systems. , 2006, , .		3
173	Thermal Modeling of Supercapacitors. SpringerBriefs in Applied Sciences and Technology, 2015, , 115-141.	0.4	3
174	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
175	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
176	Thermionic Emission From Potassium-Intercalated Carbon Nanotube Arrays. , 2007, , .		1
177	Physics based models for metal hydride particle morphology, distribution, and effective thermal conductivity. Materials Research Society Symposia Proceedings, 2009, 1172, 106.	0.1	1
178	Characterization of Metallically Bonded Carbon Nanotube-Based Thermal Interface Materials Using a High Accuracy 1D Steady-State Technique. , 2011, , .		1
179	Effect of Gamma-Ray Irradiation on the Thermal Contact Conductance of Carbon Nanotube Thermal Interface Materials. , 2013, , .		1
180	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

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181	Influence of Temperature on Supercapacitor Components. SpringerBriefs in Applied Sciences and Technology, 2015, , 27-69.	0.4	1
182	Rapid colorimetric analysis of graphene on copper. Corrosion Science, 2018, 138, 319-325.	6.6	1
183	Effect of DC Bias on Microwave Plasma Enhanced Chemical Vapor Deposition Synthesis of Single-Walled Carbon Nanotubes. , 2005, , .		1
184	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
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