

Timothy S. Fisher

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

350
papers

10,583
citations

53
h-index

89
g-index

422
ext. papers

11,857
ext. citations

5.2
avg. IF

6.47
L-index

#	Paper	IF	Citations
350	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	6.7	0
349	Solar-Thermal Production of Graphitic Carbon and Hydrogen via Methane Decomposition. <i>Energy & Fuels</i> , 2022 , 36, 3920-3928	4.1	2
348	Thermal boundary conductance across Co/Cu interfaces with spin-lattice interactions. <i>Journal of Applied Physics</i> , 2021 , 130, 235108	2.5	2
347	High-Temperature Thermal Diffusivity Measurements Using a Modified Bøström's Method with Transient Infrared Thermography. <i>Journal of Heat Transfer</i> , 2021 ,	1.8	1
346	Laser writing of electronic circuitry in thin film molybdenum disulfide: A transformative manufacturing approach. <i>Materials Today</i> , 2021 , 43, 17-26	21.8	4
345	Advances in thermal conductivity for energy applications: a review. <i>Progress in Energy</i> , 2021 , 3, 012002	7.7	6
344	Experimental demonstration of pressure-driven flash boiling for transient two-phase cooling. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2021 , 1-1	1.7	
343	A Heat Transfer Model for Graphene Deposition on Ni and Cu Foils in a Roll-to-Roll Plasma Chemical Vapor Deposition System. <i>Journal of Heat Transfer</i> , 2021 , 143,	1.8	1
342	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	8.9	2
341	Atomistic simulation of phonon and magnon thermal transport across the ferromagnetic-paramagnetic transition. <i>Physical Review B</i> , 2020 , 101,	3.3	8
340	Thermal conductance at nanoscale amorphous boron nitride/metal interfaces. <i>Surface and Coatings Technology</i> , 2020 , 397, 126017	4.4	5
339	Photoconductivity calculations of bilayer graphene from first principles and deformation-potential approach. <i>Physical Review B</i> , 2020 , 101,	3.3	2
338	Rapid Analytical Instrumentation for Electrochemical Impedance Spectroscopy Measurements. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 027545	3.9	2
337	Accurate Thermal Diffusivity Measurements Using a Modified Bøström's Method With Bayesian Statistics. <i>Journal of Heat Transfer</i> , 2020 , 142,	1.8	2
336	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	9.5	18
335	Vertical graphene nano-antennas for solar-to-hydrogen energy conversion. <i>Solar Energy</i> , 2020 , 208, 379-387	3.7	7
334	Shape Control of Thermoplasmonic Gold Nanostars on Oxide Substrates for Hyperthermia-Mediated Cell Detachment. <i>ACS Central Science</i> , 2020 , 6, 2105-2116	16.8	7

333	Solar Energy Conversion: Multifunctional Solar Waterways: Plasma-Enabled Self-Cleaning Nanoarchitectures for Energy-Efficient Desalination (Adv. Energy Mater. 30/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970119	21.8	6
332	Scalable Production of Integrated Graphene Nanoarchitectures for Ultrafast Solar-Thermal Conversion and Vapor Generation. <i>Matter</i> , 2019 , 1, 1017-1032	12.7	40
331	Bypass, Loss, and Heat Transfer in Aircraft Surface Coolers. <i>Frontiers in Mechanical Engineering</i> , 2019 , 5,	2.6	1
330	Multifunctional Solar Waterways: Plasma-Enabled Self-Cleaning Nanoarchitectures for Energy-Efficient Desalination. <i>Advanced Energy Materials</i> , 2019 , 9, 1901286	21.8	66
329	Ragone Relations for Thermal Energy Storage Technologies. <i>Frontiers in Mechanical Engineering</i> , 2019 , 5,	2.6	3
328	Heat generation in all-solid-state supercapacitors with graphene electrodes and gel electrolytes. <i>Electrochimica Acta</i> , 2019 , 303, 341-353	6.7	9
327	Dynamic Thermal Management Of Silicon Interconnect Fabric Using Flash Cooling 2019 ,		2
326	Discharge regimes and emission characteristics of capacitively coupled radio frequency argon plasma with a square wave input. <i>Journal of Applied Physics</i> , 2019 , 125, 223301	2.5	5
325	Control-Oriented Modeling of Integrated Flash Boiling for Rapid Transient Heat Dissipation. <i>Journal of Thermophysics and Heat Transfer</i> , 2019 , 33, 817-829	1.3	2
324	Heterogeneous Integration of a Fan-Out Wafer-Level Packaging Based Foldable Display on Elastomeric Substrate 2019 ,		4
323	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. <i>ACS Nano</i> , 2019 , 13, 13027-13036	16.7	18
322	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019 , 363, 723-727	33.3	229
321	Thermal boundary resistance predictions with non-equilibrium Green's function and molecular dynamics simulations. <i>Applied Physics Letters</i> , 2019 , 115, 231601	3.4	7
320	Bioinspired leaves-on-branchlet hybrid carbon nanostructure for supercapacitors. <i>Nature Communications</i> , 2018 , 9, 790	17.4	118
319	Rapid colorimetric analysis of graphene on copper. <i>Corrosion Science</i> , 2018 , 138, 319-325	6.8	1
318	Transient thermal analysis of flash-boiling cooling in the presence of high-heat-flux loads. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 123, 678-692	4.9	6
317	Decomposition of the Thermal Boundary Resistance across Carbon Nanotube-Graphene Junctions to Different Mechanisms. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15226-15231	9.5	9
316	Versatile technique for assessing thickness of 2D layered materials by XPS. <i>Nanotechnology</i> , 2018 , 29, 115705	3.4	12

3 ¹⁵	Dominant phonon polarization conversion across dimensionally mismatched interfaces: Carbon-nanotube-graphene junction. <i>Physical Review B</i> , 2018 , 97,	3.3	9
3 ¹⁴	Experimental characterization of dynamic heat exchanger behavior. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 121, 933-942	4.9	2
3 ¹³	Bias effects on wear and corrosion behavior of amorphous hydrogenated carbon films with zirconia interlayer. <i>Surface and Coatings Technology</i> , 2018 , 350, 603-620	4.4	3
3 ¹²	Roll-to-Roll Production of Graphitic Petals on Carbon Fiber Tow. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800004	3.5	6
3 ¹¹	Continuous glucose monitoring with a flexible biosensor and wireless data acquisition system. <i>Sensors and Actuators B: Chemical</i> , 2018 , 275, 237-243	8.5	10
3 ¹⁰	High-throughput transient thermal interface testing method using time-domain thermal response. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 228-233	4.9	2
3 ⁰⁹	Harnessing the thermogalvanic effect of the ferro/ferricyanide redox couple in a thermally chargeable supercapacitor. <i>Electrochimica Acta</i> , 2018 , 281, 357-369	6.7	24
3 ⁰⁸	Cooling power and characteristic times of composite heatsinks and insulants. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 1205-1215	4.9	23
3 ⁰⁷	Cosmetically Adaptable Transparent Strain Sensor for Sensitive Delineating Patterns in Small Movements of Vital Human Organs. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44126-44133	9.5	16
3 ⁰⁶	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	6.3	78
3 ⁰⁵	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	6.1	21
3 ⁰⁴	Suggested standards for reporting power and energy density in supercapacitor research. <i>Bulletin of Materials Science</i> , 2018 , 41, 1	1.7	4
3 ⁰³	Transient Self-Heating at Nanowire Junctions in Silver Nanowire Network Conductors. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 1171-1180	2.6	7
3 ⁰²	Dynamic Thermal Management for Aerospace Technology: Review and Outlook. <i>Journal of Thermophysics and Heat Transfer</i> , 2017 , 31, 86-98	1.3	25
3 ⁰¹	Phonon wave effects in the thermal transport of epitaxial TiN/(Al,Sc)N metal/semiconductor superlattices. <i>Journal of Applied Physics</i> , 2017 , 121, 015109	2.5	31
3 ⁰⁰	Thermal transport across metal silicide-silicon interfaces: First-principles calculations and Green's function transport simulations. <i>Physical Review B</i> , 2017 , 95,	3.3	53
2 ⁹⁹	Thermal transport across metal silicide-silicon interfaces: An experimental comparison between epitaxial and nonepitaxial interfaces. <i>Physical Review B</i> , 2017 , 95,	3.3	20
2 ⁹⁸	Brazed Carbon Nanotube Arrays: Decoupling Thermal Conductance and Mechanical Rigidity. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601042	4.6	7

297	Slow creep in soft granular packings. <i>Soft Matter</i> , 2017 , 13, 3411-3421	3.6	8
296	Nanomaterials for Clean Energy and Environmental Sensors: An India-U.S. Workshop. <i>ACS Energy Letters</i> , 2017 , 2, 1137-1138	20.1	
295	Graphene nanopetal wire supercapacitors with high energy density and thermal durability. <i>Nano Energy</i> , 2017 , 38, 127-136	17.1	52
294	Magnetothermoelectric effects in graphene and their dependence on scatterer concentration, magnetic field, and band gap. <i>Journal of Applied Physics</i> , 2017 , 121, 125113	2.5	6
293	Mechanical Behavior of Carbon Nanotube Forests Grown With Plasma Enhanced Chemical Vapor Deposition: Pristine and Conformally Coated. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2017 , 139,	1.8	4
292	Microscopic Evaluation of Electrical and Thermal Conduction in Random Metal Wire Networks. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13703-13712	9.5	13
291	Flyweight 3D Graphene Scaffolds with Microinterface Barrier-Derived Tunable Thermal Insulation and Flame Retardancy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14232-14241	9.5	50
290	Hardware-in-the-Loop Validation of Advanced Fuel Thermal Management Control. <i>Journal of Thermophysics and Heat Transfer</i> , 2017 , 31, 901-909	1.3	10
289	Plasma Chemical and Physical Vapour Deposition Methods and Diagnostics for 2D Materials 2017 , 275-315		
288	Process optimization of graphene growth in a roll-to-roll plasma CVD system. <i>AIP Advances</i> , 2017 , 7, 115102	10.2	21
287	Phonon-eigenspectrum-based formulation of the atomistic Green's function method. <i>Physical Review B</i> , 2017 , 96,	3.3	25
286	Characterization of vertically oriented carbon nanotube arrays as high-temperature thermal interface materials. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 1287-1293	4.9	18
285	Reduced work function of graphene by metal adatoms. <i>Applied Surface Science</i> , 2017 , 394, 98-107	6.7	32
284	Scalable Coating of Single-Source Nickel Hexadecanethiolate Precursor on 3D Graphitic Petals for Asymmetric Supercapacitors. <i>Energy Technology</i> , 2017 , 5, 740-746	3.5	7
283	High exergetic modified Brayton cycle with thermoelectric energy conversion. <i>Applied Thermal Engineering</i> , 2017 , 114, 1366-1371	5.8	10
282	Thermal conduction in graphite flake-epoxy composites using infrared microscopy 2017 ,		1
281	Work Function Characterization of Potassium-Intercalated, Boron Nitride Doped Graphitic Petals. <i>Frontiers in Mechanical Engineering</i> , 2017 , 3,	2.6	3
280	Highly porous three-dimensional carbon nanotube foam as a freestanding anode for a lithium-ion battery. <i>RSC Advances</i> , 2016 , 6, 79734-79744	3.7	38

279	Generalized Compact Modeling of Nanoparticle-Based Amperometric Glucose Biosensors. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 4924-4932	2.9	6
278	Cross-plane thermal conductivity of (Ti,W)N/(Al,Sc)N metal/semiconductor superlattices. <i>Physical Review B</i> , 2016 , 93,	3.3	55
277	Response of Phase-Change-Material-Filled Porous Foams Under Transient Heating Conditions. <i>Journal of Thermophysics and Heat Transfer</i> , 2016 , 30, 880-889	1.3	3
276	Electroreflectance imaging of gold-H ₃ PO ₄ supercapacitors. Part II: microsupercapacitor ageing characterization. <i>Analyst, The</i> , 2016 , 141, 1462-71	5	3
275	Electroreflectance imaging of gold-H ₃ PO ₄ supercapacitors. Part I: experimental methodology. <i>Analyst, The</i> , 2016 , 141, 1448-61	5	7
274	Combined Microstructure and Heat Transfer Modeling of Carbon Nanotube Thermal Interface Materials ¹ . <i>Journal of Heat Transfer</i> , 2016 , 138,	1.8	7
273	Effects of Graphene Nanopetal Outgrowths on Internal Thermal Interface Resistance in Composites. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6678-84	9.5	16
272	Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics. <i>Advanced Functional Materials</i> , 2016 , 26, 2640-2647	15.6	58
271	Hierarchical Ni ₂ O Hydroxide Petals on Mechanically Robust Graphene Petal Foam for High-Energy Asymmetric Supercapacitors. <i>Advanced Functional Materials</i> , 2016 , 26, 5460-5470	15.6	117
270	Hyperbolically Patterned 3D Graphene Metamaterial with Negative Poisson's Ratio and Superelasticity. <i>Advanced Materials</i> , 2016 , 28, 2229-37	24	138
269	Nanoelectronics: Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics (Adv. Funct. Mater. 16/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 2771-2771	15.6	1
268	Bi ₂ Te probes for dissipative phonon quantum transport in semiconductor nanostructures. <i>Applied Physics Letters</i> , 2016 , 108, 113107	3.4	18
267	Analysis of hydrogen plasma in a microwave plasma chemical vapor deposition reactor. <i>Journal of Applied Physics</i> , 2016 , 119, 113301	2.5	25
266	Flash boiling from carbon foams for high-heat-flux transient cooling. <i>Applied Physics Letters</i> , 2016 , 109, 024102	3.4	6
265	Design and Validation of a High-Temperature Thermal Interface Resistance Measurement System. <i>Journal of Thermal Science and Engineering Applications</i> , 2016 , 8,	1.9	8
264	The Benefits of Peer Review and a Multisemester Capstone Writing Series on Inquiry and Analysis Skills in an Undergraduate Thesis. <i>CBE Life Sciences Education</i> , 2016 , 15,	3.4	13
263	Guidance of cell adhesion and migration by graphitic nanopetals on carbon fibers. <i>Materials Letters</i> , 2016 , 184, 211-215	3.3	4
262	Reactive Hot Pressing and Properties of Zr _{1-x} Ti _x B ₂ Cr Composites. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 711-716	3.8	9

261	Electron-phonon coupling and thermal conductance at a metal-semiconductor interface: First-principles analysis. <i>Journal of Applied Physics</i> , 2015 , 117, 134502	2.5	36
260	Influence of Temperature on Supercapacitor Components. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 27-69	0.4	
259	Thermal Management in Electrochemical Energy Storage Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 1-10	0.4	4
258	Engineering the electronic bandgaps and band edge positions in carbon-substituted 2D boron nitride: a first-principles investigation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13547-52	3.6	28
257	Thermal Effects in Supercapacitors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 ,	0.4	37
256	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	4.9	29
255	Optical properties of thin graphitic nanopetal arrays. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 158, 84-90	2.1	5
254	Large-scale synthesis and activation of polygonal carbon nanofibers with thin ribbon-like structures for supercapacitor electrodes. <i>RSC Advances</i> , 2015 , 5, 31837-31844	3.7	29
253	Plasma-grown graphene petals templating NiCoMn hydroxide nanoneedles for high-rate and long-cycle-life pseudocapacitive electrodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22940-22948	13	87
252	Thermal transport across carbon nanotube-graphene covalent and van der Waals junctions. <i>Journal of Applied Physics</i> , 2015 , 118, 044302	2.5	42
251	Influence of Temperature on Supercapacitor Performance. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 71-114	0.4	2
250	Atomic Layer Deposition of FeO on Pt(111) by Ferrocene Adsorption and Oxidation. <i>Chemistry of Materials</i> , 2015 , 27, 5915-5924	9.6	36
249	Carbon nanotube arrays decorated with multi-layer graphene-nanopetals enhance mechanical strength and durability. <i>Carbon</i> , 2015 , 84, 236-245	10.4	26
248	A Model Predictive Framework for Thermal Management of Aircraft 2015 ,		2
247	Synthesis of Porous NiCoMn Oxide Nanoneedles and the Temperature Dependence of Their Pseudocapacitive Behavior. <i>Frontiers in Energy Research</i> , 2015 , 3,	3.8	28
246	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. <i>Carbon</i> , 2015 , 93, 659-670	10.4	145
245	Modeling Thermal Storage in Wax-Impregnated Foams with a Pore-Scale Submodel. <i>Journal of Thermophysics and Heat Transfer</i> , 2015 , 29, 812-819	1.3	4
244	Temporally and spatially resolved plasma spectroscopy in pulsed laser deposition of ultra-thin boron nitride films. <i>Journal of Applied Physics</i> , 2015 , 117, 165305	2.5	24

243	Thermal Considerations for Supercapacitors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 11-26	0.4	
242	Thermal Modeling of Supercapacitors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 115-141	0.4	2
241	Graphitic Petal Micro-Supercapacitor Electrodes for Ultra-High Power Density. <i>Energy Technology</i> , 2014 , 2, 897-905	3.5	40
240	Thermally driven squeezed-film cooling with carbon nanotube-coated gadolinium shuttles. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 1199-1207	4.9	1
239	A Review of Graphene-Based Electrochemical Microsupercapacitors. <i>Electroanalysis</i> , 2014 , 26, 30-51	3	277
238	Growth of contiguous graphite fins from thermally conductive graphite fibers. <i>Carbon</i> , 2014 , 69, 424-436	0.4	5
237	Thermoelectric topping cycles for power plants to eliminate cooling water consumption. <i>Energy Conversion and Management</i> , 2014 , 84, 244-252	10.6	29
236	Variable-cell method for stress-controlled jamming of athermal, frictionless grains. <i>Physical Review E</i> , 2014 , 89, 042203	2.4	26
235	HYDROPHILIC CNT-SINTERED COPPER COMPOSITE WICK FOR ENHANCED COOLING. <i>WSPC Series in Advanced Integration and Packaging</i> , 2014 , 307-331		
234	Thermionic and Photo-Excited Electron Emission for Energy-Conversion Processes. <i>Frontiers in Energy Research</i> , 2014 , 2,	3.8	11
233	Hydrophilic CNT-Sintered Copper Composite Wick for Enhanced Cooling 2014 , 267-288		
232	Laser Diagnostics of Plasma in Synthesis of Graphene-Based Materials. <i>Journal of Micro and Nano-Manufacturing</i> , 2014 , 2,	1.3	3
231	First Principles and Finite Element Predictions of Radiative Properties of Nanostructure Arrays: Single-Walled Carbon Nanotube Arrays. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	2
230	Simulation of thermal storage in wax-impregnated porous foams with a pore-scale submodel 2014 ,		1
229	Hydrophilic CNT-Sintered Copper Composite Wick for Enhanced Cooling 2014 , 267-288		
228	Synthesis of few-layer, large area hexagonal-boron nitride by pulsed laser deposition. <i>Thin Solid Films</i> , 2014 , 572, 245-250	2.2	67
227	Methanol wetting enthalpy on few-layer graphene decorated hierarchical carbon foam for cooling applications. <i>Thin Solid Films</i> , 2014 , 572, 169-175	2.2	11
226	Time-dependent density functional theory of coupled electronic lattice motion in quasi-two-dimensional crystals. <i>Physical Review B</i> , 2014 , 89,	3.3	11

225	Graphitic Petal Electrodes for All-Solid-State Flexible Supercapacitors. <i>Advanced Energy Materials</i> , 2014 , 4, 1300515	21.8	133
224	THE ATOMISTIC GREEN'S FUNCTION METHOD FOR INTERFACIAL PHONON TRANSPORT. <i>Annual Review of Heat Transfer</i> , 2014 , 17, 89-145	2.7	46
223	Conduction in Jammed Systems of Tetrahedra. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	7
222	Combined Microstructure and Heat Conduction Modeling of Heterogeneous Interfaces and Materials. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	7
221	Experimental Characterization of Capillary-Fed Carbon Nanotube Vapor Chamber Wicks. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	20
220	Metal functionalization of carbon nanotubes for enhanced sintered powder wicks. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 59, 372-383	4.9	18
219	MnO ₂ -coated graphitic petals for supercapacitor electrodes. <i>Journal of Power Sources</i> , 2013 , 227, 254-259	5.9	185
218	Boron-Carbon-Nitrogen foam surfaces for thermal physisorption applications. <i>Thin Solid Films</i> , 2013 , 528, 187-193	2.2	15
217	Nitrogen-doped graphene by microwave plasma chemical vapor deposition. <i>Thin Solid Films</i> , 2013 , 528, 269-273	2.2	34
216	Graphene: An effective oxidation barrier coating for liquid and two-phase cooling systems. <i>Corrosion Science</i> , 2013 , 69, 5-10	6.8	55
215	Effect of Gamma-Ray Irradiation on the Thermal Contact Conductance of Carbon Nanotube Thermal Interface Materials 2013 ,		1
214	Solution-processed soldering of carbon nanotubes for flexible electronics. <i>Nanotechnology</i> , 2013 , 24, 075301	3.4	4
213	Optical properties of ordered carbon nanotube arrays grown in porous anodic alumina templates. <i>Optics Express</i> , 2013 , 21, 22053-62	3.3	12
212	Photonicallly excited electron emission from modified graphitic nanopetal arrays. <i>Journal of Applied Physics</i> , 2013 , 113, 193710	2.5	5
211	Carbon Nanotube Arrays for Enhanced Thermal Interfaces to Thermoelectric Modules. <i>Journal of Thermophysics and Heat Transfer</i> , 2013 , 27, 474-481	1.3	10
210	Length and temperature dependent 1/f noise in vertical single-walled carbon nanotube arrays. <i>Journal of Applied Physics</i> , 2013 , 113, 144306	2.5	3
209	Flash Boiling and Desorption From a Macroporous Carbon-Boron-Nitrogen Foam 2013 ,		2
208	Shear-induced failure in jammed nanoparticle assemblies 2013 ,		1

207	PHOTOACOUSTIC TECHNIQUE FOR THERMAL CONDUCTIVITY AND THERMAL INTERFACE MEASUREMENTS. <i>Annual Review of Heat Transfer</i> , 2013 , 16, 135-157	2.7	16
206	The effect of heating rate and composition on the properties of spark plasma sintered zirconium diboride based composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 538, 98-102	5.3	22
205	Columnar order in jammed LiFePO ₄ cathodes: ion transport catastrophe and its mitigation. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 7040-50	3.6	36
204	Thermal and Electrical Conductivities of Nanocrystalline Nickel Microbridges. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 850-858	2.5	12
203	Models for metal hydride particle shape, packing, and heat transfer. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13417-13428	6.7	25
202	Effects of Titanium-Containing Additives on the Dehydrogenation Properties of LiAlH ₄ : A Computational and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22327-22335	3.8	15
201	Characterization and nanostructured enhancement of boiling incipience in capillary-fed, ultra-thin sintered powder wicks 2012 ,		19
200	Improved Dehydrogenation Properties of Ti-Doped LiAlH ₄ : Role of Ti Precursors. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21886-21894	3.8	24
199	Electrochemical Biosensors Based on Carbon Nanotubes 2012 ,		1
198	Controlled thin graphitic petal growth on oxidized silicon. <i>Diamond and Related Materials</i> , 2012 , 27-28, 1-9	3.5	31
197	Carbon nanotube thermal interfaces on gadolinium foil. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 6716-6722	4.9	7
196	Heat Transfer Across Metal-Dielectric Interfaces During Ultrafast-Laser Heating. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	56
195	Synthesis of chemically bonded CNT/graphene heterostructure arrays. <i>RSC Advances</i> , 2012 , 2, 8250	3.7	36
194	Microwave-Assisted Surface Synthesis of a Boron/Carbon/Nitrogen Foam and its Desorption Enthalpy. <i>Advanced Functional Materials</i> , 2012 , 22, 3682-3690	15.6	59
193	Nanostructuring Platinum Nanoparticles on Multilayered Graphene Petal Nanosheets for Electrochemical Biosensing. <i>Advanced Functional Materials</i> , 2012 , 22, 3399-3405	15.6	176
192	Rapid synthesis of few-layer graphene over Cu foil. <i>Carbon</i> , 2012 , 50, 1546-1553	10.4	61
191	Carbon Nanotube Coatings for Enhanced Capillary-Fed Boiling from Porous Microstructures. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2012 , 16, 1-17	3.7	54
190	Photonicly enhanced flow boiling in a channel coated with carbon nanotubes. <i>Applied Physics Letters</i> , 2012 , 100, 071601	3.4	27

189	Thermal Radiative Properties of Vertical Graphitic Petal Arrays 2012 ,		1
188	Chemically B-N Modified Activated Carbon and its Thermal Stability and Desorption Enthalpy With Methanol 2012 ,		2
187	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,	2	40
186	Carbon nanowalls amplify the surface-enhanced Raman scattering from Ag nanoparticles. <i>Nanotechnology</i> , 2011 , 22, 395704	3-4	24
185	Charge storage in mesoscopic graphitic islands fabricated using AFM bias lithography. <i>Nanotechnology</i> , 2011 , 22, 245302	3-4	24
184	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		51
183	An atomistic study of thermal conductance across a metal-graphene nanoribbon interface. <i>Journal of Applied Physics</i> , 2011 , 109, 074305	2.5	16
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1	Effects of wind tunnel orientation and mixed convection on heat transfer from a PQFP		2