

# Timothy S. Fisher

## List of Publications by Citations

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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	Enhancement of thermal interface materials with carbon nanotube arrays. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 1658-1666	4.9	353
349	Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 559	35.4	311
348	A Review of Graphene-Based Electrochemical Microsupercapacitors. <i>Electroanalysis</i> , <b>2014</b> , 26, 30-51	3	277
347	Graphene-based hybrid materials and devices for biosensing. <i>Advanced Drug Delivery Reviews</i> , <b>2011</b> , 63, 1352-60	18.5	230
346	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , <b>2019</b> , 363, 723-727	33.3	229
345	Electrochemical biosensor of nanocube-augmented carbon nanotube networks. <i>ACS Nano</i> , <b>2009</b> , 3, 37-44	46.7	210
344	Effects of carbon nanotube arrays on nucleate pool boiling. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 4023-4038	4.9	209
343	The Atomistic Green's Function Method: An Efficient Simulation Approach for Nanoscale Phonon Transport. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2007</b> , 51, 333-349	1.3	199
342	3-Omega Measurements of Vertically Oriented Carbon Nanotubes on Silicon. <i>Journal of Heat Transfer</i> , <b>2006</b> , 128, 1109-1113	1.8	193
341	MnO <sub>2</sub> -coated graphitic petals for supercapacitor electrodes. <i>Journal of Power Sources</i> , <b>2013</b> , 227, 254-259	2.9	185
340	Photoacoustic characterization of carbon nanotube array thermal interfaces. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 054313	2.5	182
339	Nanostructuring Platinum Nanoparticles on Multilayered Graphene Petal Nanosheets for Electrochemical Biosensing. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3399-3405	15.6	176
338	Effects of carbon nanotube coating on flow boiling in a micro-channel. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 3805-3817	4.9	169
337	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. <i>Carbon</i> , <b>2015</b> , 93, 659-670	10.4	145
336	Simulation of Interfacial Phonon Transport in SiGe Heterostructures Using an Atomistic Green's Function Method. <i>Journal of Heat Transfer</i> , <b>2007</b> , 129, 483-491	1.8	145
335	Kinetics of Ru-catalyzed sodium borohydride hydrolysis. <i>Journal of Power Sources</i> , <b>2007</b> , 164, 772-781	8.9	142
334	Hyperbolically Patterned 3D Graphene Metamaterial with Negative Poisson's Ratio and Superelasticity. <i>Advanced Materials</i> , <b>2016</b> , 28, 2229-37	24	138

333	Graphitic Petal Electrodes for All-Solid-State Flexible Supercapacitors. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300515	21.8	133
332	A Review of Heat Transfer Issues in Hydrogen Storage Technologies. <i>Journal of Heat Transfer</i> , <b>2005</b> , 127, 1391-1399	1.8	126
331	Increased real contact in thermal interfaces: A carbon nanotube/foil material. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 093513	3.4	124
330	Bioinspired leaves-on-branchlet hybrid carbon nanostructure for supercapacitors. <i>Nature Communications</i> , <b>2018</b> , 9, 790	17.4	118
329	Ionic winds for locally enhanced cooling. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 053302	2.5	118
328	Hierarchical NiCo Hydroxide Petals on Mechanically Robust Graphene Petal Foam for High-Energy Asymmetric Supercapacitors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5460-5470	15.6	117
327	Extraordinary Sensitivity of the Electronic Structure and Properties of Single-Walled Carbon Nanotubes to Molecular Charge-Transfer. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 13053-13056	3.8	114
326	Mechanism of thermal conductivity reduction in few-layer graphene. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 044317	2.5	112
325	Contact mechanics and thermal conductance of carbon nanotube array interfaces. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 3490-3503	4.9	111
324	Enhancement of external forced convection by ionic wind. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 6047-6053	4.9	110
323	Structural and biochemical characterization of the wild type PCSK9-EGF(AB) complex and natural familial hypercholesterolemia mutants. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 1313-23	5.4	100
322	Plasma-grown graphene petals templating NiCoMn hydroxide nanoneedles for high-rate and long-cycle-life pseudocapacitive electrodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 22940-22948	13	87
321	Biochemical characterization of cholesteryl ester transfer protein inhibitors. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 2739-52	6.3	84
320	Heat of reaction measurements of sodium borohydride alcoholysis and hydrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 2292-2298	6.7	84
319	Parametric study of synthesis conditions in plasma-enhanced CVD of high-quality single-walled carbon nanotubes. <i>Carbon</i> , <b>2006</b> , 44, 10-18	10.4	83
318	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> , <b>2010</b> , 285, 12882-91	5.4	79
317	Efficient thermal management of Li-ion batteries with a passive interfacial thermal regulator based on a shape memory alloy. <i>Nature Energy</i> , <b>2018</b> , 3, 899-906	62.3	78
316	A metallization and bonding approach for high performance carbon nanotube thermal interface materials. <i>Nanotechnology</i> , <b>2010</b> , 21, 445705	3.4	75

315	Enhanced thermal contact conductance using carbon nanotube array interfaces. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2006</b> , 29, 261-267		72
314	Chaotic mixer improves microarray hybridization. <i>Analytical Biochemistry</i> , <b>2004</b> , 325, 215-26	3.1	70
313	Synthesis of few-layer, large area hexagonal-boron nitride by pulsed laser deposition. <i>Thin Solid Films</i> , <b>2014</b> , 572, 245-250	2.2	67
312	Multifunctional Solar Waterways: Plasma-Enabled Self-Cleaning Nanoarchitectures for Energy-Efficient Desalination. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901286	21.8	66
311	Rapid synthesis of few-layer graphene over Cu foil. <i>Carbon</i> , <b>2012</b> , 50, 1546-1553	10.4	61
310	Microwave-Assisted Surface Synthesis of a Boron-Carbon-Nitrogen Foam and its Desorption Enthalpy. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3682-3690	15.6	59
309	Optical properties of ordered vertical arrays of multi-walled carbon nanotubes from FDTD simulations. <i>Optics Express</i> , <b>2010</b> , 18, 6347-59	3.3	59
308	Measurement of metal/carbon nanotube contact resistance by adjusting contact length using laser ablation. <i>Nanotechnology</i> , <b>2008</b> , 19, 125703	3.4	58
307	Effects of a carbon nanotube layer on electrical contact resistance between copper substrates. <i>Nanotechnology</i> , <b>2006</b> , 17, 2294-2303	3.4	58
306	Amorphous Boron Nitride: A Universal, Ultrathin Dielectric For 2D Nanoelectronics. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2640-2647	15.6	58
305	1kWe sodium borohydride hydrogen generation system. <i>Journal of Power Sources</i> , <b>2007</b> , 165, 844-853	8.9	57
304	Simulation of ion generation and breakdown in atmospheric air. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 6066-6072	5.7	57
303	Heat Transfer Across Metal-Dielectric Interfaces During Ultrafast-Laser Heating. <i>Journal of Heat Transfer</i> , <b>2012</b> , 134,	1.8	56
302	Cross-plane thermal conductivity of (Ti,W)N/(Al,Sc)N metal/semiconductor superlattices. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	55
301	Graphene: An effective oxidation barrier coating for liquid and two-phase cooling systems. <i>Corrosion Science</i> , <b>2013</b> , 69, 5-10	6.8	55
300	Contiguous petal-like carbon nanosheet outgrowths from graphite fibers by plasma CVD. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 644-8	9.5	55
299	Pool Boiling Performance Comparison of Smooth and Sintered Copper Surfaces with and Without Carbon Nanotubes. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2011</b> , 15, 133-150	3.7	54
298	Carbon Nanotube Coatings for Enhanced Capillary-Fed Boiling from Porous Microstructures. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2012</b> , 16, 1-17	3.7	54

297	Thermal transport across metal silicide-silicon interfaces: First-principles calculations and Green's function transport simulations. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	53
296	Dendrimer-assisted controlled growth of carbon nanotubes for enhanced thermal interface conductance. <i>Nanotechnology</i> , <b>2007</b> , 18, 385303	3.4	53
295	Graphene nanopetal wire supercapacitors with high energy density and thermal durability. <i>Nano Energy</i> , <b>2017</b> , 38, 127-136	17.1	52
294	Electrochemical glutamate biosensing with nanocube and nanosphere augmented single-walled carbon nanotube networks: a comparative study. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 11224		51
293	Simulation of phonon transmission through graphene and graphene nanoribbons with a Green's function method. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 094319	2.5	51
292	Flyweight 3D Graphene Scaffolds with Microinterface Barrier-Derived Tunable Thermal Insulation and Flame Retardancy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14232-14241	9.5	50
291	Simulation of phonon transport across a non-polar nanowire junction using an atomistic Green's function method. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	50
290	Vertical single- and double-walled carbon nanotubes grown from modified porous anodic alumina templates. <i>Nanotechnology</i> , <b>2006</b> , 17, 3925-3929	3.4	49
289	Simulation of nonequilibrium thermal effects in power LDMOS transistors. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 1265-1273	1.7	48
288	Effect of Phonon Dispersion on Thermal Conduction Across Si/Ge Interfaces. <i>Journal of Heat Transfer</i> , <b>2011</b> , 133,	1.8	46
287	THE ATOMISTIC GREEN'S FUNCTION METHOD FOR INTERFACIAL PHONON TRANSPORT. <i>Annual Review of Heat Transfer</i> , <b>2014</b> , 17, 89-145	2.7	46
286	Transforming the fabrication and biofunctionalization of gold nanoelectrode arrays into versatile electrochemical glucose biosensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 1765-70	9.5	44
285	Electrochemical glucose biosensor of platinum nanospheres connected by carbon nanotubes. <i>Journal of Diabetes Science and Technology</i> , <b>2010</b> , 4, 312-9	4.1	43
284	Thermal transport across carbon nanotube-graphene covalent and van der Waals junctions. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 044302	2.5	42
283	Photo- and thermionic emission from potassium-intercalated carbon nanotube arrays. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2010</b> , 28, 423-434	1.3	41
282	Scalable Production of Integrated Graphene Nanoarchitectures for Ultrafast Solar-Thermal Conversion and Vapor Generation. <i>Matter</i> , <b>2019</b> , 1, 1017-1032	12.7	40
281	Graphitic Petal Micro-Supercapacitor Electrodes for Ultra-High Power Density. <i>Energy Technology</i> , <b>2014</b> , 2, 897-905	3.5	40
280	Spectral phonon conduction and dominant scattering pathways in graphene. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 094312	2.5	40

279	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> , <b>2012</b> , 134,	2	40
278	Effects of Growth Temperature on Carbon Nanotube Array Thermal Interfaces. <i>Journal of Heat Transfer</i> , <b>2008</b> , 130,	1.8	40
277	Thermal Resistance of Nanowire-Plane Interfaces. <i>Journal of Heat Transfer</i> , <b>2005</b> , 127, 664-668	1.8	39
276	Experiments on Chimney-Enhanced Free Convection. <i>Journal of Heat Transfer</i> , <b>1999</b> , 121, 603-609	1.8	39
275	Highly porous three-dimensional carbon nanotube foam as a freestanding anode for a lithium-ion battery. <i>RSC Advances</i> , <b>2016</b> , 6, 79734-79744	3.7	38
274	Carbon Nanotube Array Thermal Interfaces for High-Temperature Silicon Carbide Devices. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2008</b> , 12, 228-237	3.7	38
273	Dendrimer-templated Fe nanoparticles for the growth of single-wall carbon nanotubes by plasma-enhanced CVD. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 10636-44	3.4	38
272	Thermal Effects in Supercapacitors. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2015</b> ,	0.4	37
271	Athermal jamming of soft frictionless Platonic solids. <i>Physical Review E</i> , <b>2010</b> , 82, 051304	2.4	37
270	Effects of Carbon Nanotube-Tethered Nanosphere Density on Amperometric Biosensing: Simulation and Experiment. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20896-20904	3.8	37
269	Electron-phonon coupling and thermal conductance at a metal-semiconductor interface: First-principles analysis. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 134502	2.5	36
268	Atomic Layer Deposition of FeO on Pt(111) by Ferrocene Adsorption and Oxidation. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5915-5924	9.6	36
267	Columnar order in jammed LiFePO <sub>4</sub> cathodes: ion transport catastrophe and its mitigation. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 7040-50	3.6	36
266	Synthesis of chemically bonded CNT/graphene heterostructure arrays. <i>RSC Advances</i> , <b>2012</b> , 2, 8250	3.7	36
265	Thermal and Electrical Energy Transport and Conversion in Nanoscale Electron Field Emission Processes. <i>Journal of Heat Transfer</i> , <b>2002</b> , 124, 954-962	1.8	35
264	Nitrogen-doped graphene by microwave plasma chemical vapor deposition. <i>Thin Solid Films</i> , <b>2013</b> , 528, 269-273	2.2	34
263	Reduced work function of graphene by metal adatoms. <i>Applied Surface Science</i> , <b>2017</b> , 394, 98-107	6.7	32
262	Phonon wave effects in the thermal transport of epitaxial TiN/(Al,Sc)N metal/semiconductor superlattices. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 015109	2.5	31

261	Controlled thin graphitic petal growth on oxidized silicon. <i>Diamond and Related Materials</i> , <b>2012</b> , 27-28, 1-9	3.5	31
260	Au nanoparticles on graphitic petal arrays for surface-enhanced Raman spectroscopy. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 133108	3.4	31
259	Spark Plasma Sintering of ZrB <sub>2</sub> SiC <sub>x</sub> ultra-high temperature ceramics at 1800°C. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 6079-6082	5.3	30
258	Isostaticity of constraints in amorphous jammed systems of soft frictionless Platonic solids. <i>Physical Review E</i> , <b>2011</b> , 84, 030301	2.4	30
257	Heterogeneous wetting surfaces with graphitic petal-decorated carbon nanotubes for enhanced flow boiling. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 87, 380-389	4.9	29
256	Large-scale synthesis and activation of polygonal carbon nanofibers with thin ribbon-like structures for supercapacitor electrodes. <i>RSC Advances</i> , <b>2015</b> , 5, 31837-31844	3.7	29
255	Thermoelectric topping cycles for power plants to eliminate cooling water consumption. <i>Energy Conversion and Management</i> , <b>2014</b> , 84, 244-252	10.6	29
254	On the accuracy of classical and long wavelength approximations for phonon transport in graphene. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 113510	2.5	29
253	Flow Boiling in a Micro-Channel Coated With Carbon Nanotubes. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2009</b> , 32, 639-649		29
252	Free Convection Limits for Pin-Fin Cooling. <i>Journal of Heat Transfer</i> , <b>1998</b> , 120, 633-640	1.8	29
251	Engineering the electronic bandgaps and band edge positions in carbon-substituted 2D boron nitride: a first-principles investigation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13547-52	3.6	28
250	Synthesis of Porous NiCoMn Oxide Nanoneedles and the Temperature Dependence of Their Pseudocapacitive Behavior. <i>Frontiers in Energy Research</i> , <b>2015</b> , 3,	3.8	28
249	Freestanding vertically oriented single-walled carbon nanotubes synthesized using microwave plasma-enhanced CVD. <i>Carbon</i> , <b>2006</b> , 44, 2758-2763	10.4	28
248	Dopant-vacancy binding effects in Li-doped magnesium hydride. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	27
247	Photonicly enhanced flow boiling in a channel coated with carbon nanotubes. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 071601	3.4	27
246	In situ characterization of metal hydride thermal transport properties. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 614-621	6.7	27
245	Lithography-free in situ Pd contacts to templated single-walled carbon nanotubes. <i>Nano Letters</i> , <b>2006</b> , 6, 2712-7	11.5	27
244	Carbon nanotube arrays decorated with multi-layer graphene-nanopetals enhance mechanical strength and durability. <i>Carbon</i> , <b>2015</b> , 84, 236-245	10.4	26

243	Variable-cell method for stress-controlled jamming of athermal, frictionless grains. <i>Physical Review E</i> , <b>2014</b> , 89, 042203	2.4	26
242	Active cooling of a metal hydride system for hydrogen storage. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 1326-1332	4.9	26
241	Work function reduction of graphitic nanofibers by potassium intercalation. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 061501	3.4	26
240	Dynamic Thermal Management for Aerospace Technology: Review and Outlook. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2017</b> , 31, 86-98	1.3	25
239	Phonon-eigenspectrum-based formulation of the atomistic Green's function method. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	25
238	Models for metal hydride particle shape, packing, and heat transfer. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 13417-13428	6.7	25
237	Low-voltage ionization of air with carbon-based materials. <i>Plasma Sources Science and Technology</i> , <b>2005</b> , 14, 654-660	3.5	25
236	Dendrimer-assisted low-temperature growth of carbon nanotubes by plasma-enhanced chemical vapor deposition. <i>Chemical Communications</i> , <b>2006</b> , 2899-901	5.8	25
235	Analysis of hydrogen plasma in a microwave plasma chemical vapor deposition reactor. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 113301	2.5	25
234	Harnessing the thermogalvanic effect of the ferro/ferricyanide redox couple in a thermally chargeable supercapacitor. <i>Electrochimica Acta</i> , <b>2018</b> , 281, 357-369	6.7	24
233	Temporally and spatially resolved plasma spectroscopy in pulsed laser deposition of ultra-thin boron nitride films. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 165305	2.5	24
232	Improved Dehydrogenation Properties of Ti-Doped LiAlH <sub>4</sub> : Role of Ti Precursors. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21886-21894	3.8	24
231	Carbon nanowalls amplify the surface-enhanced Raman scattering from Ag nanoparticles. <i>Nanotechnology</i> , <b>2011</b> , 22, 395704	3.4	24
230	Charge storage in mesoscopic graphitic islands fabricated using AFM bias lithography. <i>Nanotechnology</i> , <b>2011</b> , 22, 245302	3.4	24
229	Simulation of thermal conductance across dimensionally mismatched graphene interfaces. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 114310	2.5	24
228	Self-regular boundary integral equation formulations for Laplace's equation in 2-D. <i>International Journal for Numerical Methods in Engineering</i> , <b>2001</b> , 51, 1-29	2.4	24
227	Boundary closures for fourth-order energy stable weighted essentially non-oscillatory finite-difference schemes. <i>Journal of Computational Physics</i> , <b>2011</b> , 230, 3727-3752	4.1	23
226	1kWe sodium borohydride hydrogen generation system. <i>Journal of Power Sources</i> , <b>2007</b> , 170, 150-159	8.9	23



225	Cooling power and characteristic times of composite heatsinks and insulants. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 117, 1205-1215	4.9	23
224	The effect of heating rate and composition on the properties of spark plasma sintered zirconium diboride based composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 538, 98-102	5.3	22
223	Room-temperature ferromagnetism in graphitic petal arrays. <i>Nanoscale</i> , <b>2011</b> , 3, 900-3	7.7	22
222	Thermodynamics of hydrogen vacancies in MgH <sub>2</sub> from first-principles calculations and grand-canonical statistical mechanics. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	22
221	Palladium Thiolate Bonding of Carbon Nanotube Thermal Interfaces. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2011</b> , 133,	2	22
220	Process optimization of graphene growth in a roll-to-roll plasma CVD system. <i>AIP Advances</i> , <b>2017</b> , 7, 115102	10.2	21
219	A pulsed source-sink fluid mixing device. <i>Journal of Microelectromechanical Systems</i> , <b>2006</b> , 15, 259-266	2.5	21
218	Influence of nanoscale geometry on the thermodynamics of electron field emission. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 3699-3701	3.4	21
217	Symmetric All-Solid-State Supercapacitor Operating at 1.5 V Using a Redox-Active Gel Electrolyte. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 5800-5809	6.1	21
216	Thermal transport across metal silicide-silicon interfaces: An experimental comparison between epitaxial and nonepitaxial interfaces. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	20
215	Experimental Characterization of Capillary-Fed Carbon Nanotube Vapor Chamber Wicks. <i>Journal of Heat Transfer</i> , <b>2013</b> , 135,	1.8	20
214	Toward surround gates on vertical single-walled carbon nanotube devices. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2009</b> , 27, 821		20
213	Modeling of Polarization-Specific Phonon Transmission Through Interfaces. <i>Journal of Heat Transfer</i> , <b>2011</b> , 133,	1.8	20
212	Thermionic emission energy distribution from nanocrystalline diamond films for direct thermal-electrical energy conversion applications. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 043716	2.5	20
211	Analysis and optimization of a natural draft heat sink system. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>1997</b> , 20, 111-119		20
210	Controlled Decoration of Single-Walled Carbon Nanotubes with Pd Nanocubes. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 13756-13762	3.8	20
209	In-place fabrication of nanowire electrode arrays for vertical nanoelectronics on Si substrates. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2007</b> , 25, 343		20
208	Thermionic emission from surface-terminated nanocrystalline diamond. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 1601-1608	3.5	20

207	High-temperature electron emission from diamond films. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2003</b> , 21, 587		20
206	Characterization and nanostructured enhancement of boiling incipience in capillary-fed, ultra-thin sintered powder wicks <b>2012</b> ,		19
205	Electrical and Thermal Interface Conductance of Carbon Nanotubes Grown under Direct Current Bias Voltage. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19727-19733	3.8	19
204	Spill-SOS: Self-Pumping Siphon-Capillary Oil Recovery. <i>ACS Nano</i> , <b>2019</b> , 13, 13027-13036	16.7	18
203	Metal functionalization of carbon nanotubes for enhanced sintered powder wicks. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 59, 372-383	4.9	18
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