

# Michael Thompson Pettes

## List of Publications by Year in descending order

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66  
papers

6,644  
citations

117625

34  
h-index

114465

63  
g-index

71  
all docs

71  
docs citations

71  
times ranked

9087  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfurization Engineering of One-Step Low-Temperature MoS <sub>2</sub> and WS <sub>2</sub> Thin Films for Memristor Device Applications. <i>Advanced Electronic Materials</i> , 2022, 8, 2100515.	5.1	14
2	Visualizing Grain Statistics in MOCVD WSe <sub>2</sub> through Four-Dimensional Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2022, 22, 2578-2585.	9.1	9
3	Manufacturing of Complex Silicon-Carbon Structures: Exploring SixCy Materials. <i>Materials</i> , 2022, 15, 3475.	2.9	0
4	Intrinsic helical twist and chirality in ultrathin tellurium nanowires. <i>Nanoscale</i> , 2021, 13, 9606-9614.	5.6	15
5	Local Lattice Deformation of Tellurene Grain Boundaries by Four-Dimensional Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3396-3405.	3.1	4
6	Thermoelectric properties of antimony selenide hexagonal nanotubes. <i>Nanotechnology</i> , 2021, 32, 095705.	2.6	5
7	Site-controlled telecom-wavelength single-photon emitters in atomically-thin MoTe <sub>2</sub> . <i>Nature Communications</i> , 2021, 12, 6753.	12.8	41
8	1D to 2D Transition in Tellurium Observed by 4D Electron Microscopy. <i>Small</i> , 2020, 16, e2005447.	10.0	10
9	Synergistic single process additive manufacturing of hydro-responsive Ag nanoparticle composites by digital visible light processing 3D printing. <i>Materials Advances</i> , 2020, 1, 2219-2224.	5.4	0
10	Thermal transport in phase-stabilized lithium zirconate phosphates. <i>Applied Physics Letters</i> , 2020, 117, 011903.	3.3	3
11	Highly charged interface trap states in PbS <sub>1-x</sub> govern electro-thermal transport. <i>APL Materials</i> , 2019, 7, 071105.	5.1	2
12	Locally defined quantum emission from epitaxial few-layer tungsten diselenide. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	18
13	A High Temperature Instrument for Consecutive Measurements of Thermal Conductivity, Electrical Conductivity, and Seebeck Coefficient. <i>Journal of Heat Transfer</i> , 2019, 141, .	2.1	1
14	Isotope Effect in Bilayer WSe <sub>2</sub> . <i>Nano Letters</i> , 2019, 19, 1527-1533.	9.1	22
15	Multi-stimuli responsive tetra-PPO <sub>60</sub> -PEO <sub>20</sub> ethylene diamine block copolymer enables pH, temperature, and solvent regulation of Au nanoparticle composite plasmonic response. <i>Polymer Chemistry</i> , 2019, 10, 6456-6472.	3.9	5
16	Polyelectrolyte-Assisted Oxygen Vacancies: A New Route to Defect Engineering in Molybdenum Oxide. <i>Langmuir</i> , 2018, 34, 6296-6306.	3.5	35
17	Improved Capacity Retention of Metal Oxide Anodes in Li-Ion Batteries: Increasing Intraparticle Electronic Conductivity through Na Inclusion in Mn <sub>3</sub> O <sub>4</sub> . <i>ChemElectroChem</i> , 2018, 5, 2059-2063.	3.4	8
18	Giant Mechano-Optoelectronic Effect in an Atomically Thin Semiconductor. <i>Nano Letters</i> , 2018, 18, 2351-2357.	9.1	36

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19	Cobalt Doping as a Pathway To Stabilize the Solid-State Conversion Chemistry of Manganese Oxide Anodes in Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7120-7127.	3.1	10
20	Nanoscale self-assembly of thermoelectric materials: a review of chemistry-based approaches. <i>Nanotechnology</i> , 2018, 29, 432001.	2.6	50
21	Role of Oxygen Vacancy Defects in the Electrocatalytic Activity of Substoichiometric Molybdenum Oxide. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18212-18222.	3.1	63
22	Uncertainty analysis of axial temperature and Seebeck coefficient measurements. <i>Review of Scientific Instruments</i> , 2018, 89, 084903.	1.3	5
23	Thermoelectric properties of SnSe nanowires with different diameters. <i>Scientific Reports</i> , 2018, 8, 11966.	3.3	34
24	Thermoelectric properties and thermal tolerance of indium tin oxide nanowires. <i>Nanotechnology</i> , 2018, 29, 364001.	2.6	10
25	Effect of cobalt alloying on the electrochemical performance of manganese oxide nanoparticles nucleated on multiwalled carbon nanotubes. <i>Nanotechnology</i> , 2017, 28, 155403.	2.6	10
26	Modified inverse micelle synthesis for mesoporous alumina with a high D4 siloxane adsorption capacity. <i>Microporous and Mesoporous Materials</i> , 2017, 239, 328-335.	4.4	18
27	Ultra-high resolution steady-state micro-thermometry using a bipolar direct current reversal technique. <i>Review of Scientific Instruments</i> , 2016, 87, 094901.	1.3	4
28	Thermoelectric transport in surface- and antimony-doped bismuth telluride nanoplates. <i>APL Materials</i> , 2016, 4, 104810.	5.1	22
29	Block Copolymer-Assisted Solvothermal Synthesis of Hollow Bi <sub>2</sub> MoO <sub>6</sub> Spheres Substituted with Samarium. <i>Langmuir</i> , 2016, 32, 10967-10976.	3.5	24
30	High Performance Bi-Metallic Manganese Cobalt Oxide/Carbon Nanotube Li-ion Battery Anodes. <i>Electrochimica Acta</i> , 2016, 213, 620-625.	5.2	13
31	Magnetic field-induced helical mode and topological transitions in a topological insulator nanoribbon. <i>Nature Nanotechnology</i> , 2016, 11, 345-351.	31.5	93
32	Scattering of phonons by high-concentration isotopic impurities in ultrathin graphite. <i>Physical Review B</i> , 2015, 91, .	3.2	16
33	Gate Tunable Relativistic Mass and Berry's phase in Topological Insulator Nanoribbon Field Effect Devices. <i>Scientific Reports</i> , 2015, 5, 8452.	3.3	48
34	Reexamination of basal plane thermal conductivity of suspended graphene samples measured by electro-thermal micro-bridge methods. <i>AIP Advances</i> , 2015, 5, .	1.3	40
35	Significant Electronic Thermal Transport in the Conducting Polymer Poly(3,4-ethylenedioxythiophene). <i>Advanced Materials</i> , 2015, 27, 2101-2106.	21.0	176
36	A Reexamination of Phonon Transport Through a Nanoscale Point Contact in Vacuum. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	26

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37	Basal-plane thermal conductivity of few-layer molybdenum disulfide. Applied Physics Letters, 2014, 104, 201902.	3.3	142
38	High thermal conductivity of chain-oriented amorphous polythiophene. Nature Nanotechnology, 2014, 9, 384-390.	31.5	327
39	Enhanced thermal conductivity of phase change materials with ultrathin-graphite foams for thermal energy storage. Energy and Environmental Science, 2014, 7, 1185-1192.	30.8	489
40	A comprehensive study of thermoelectric and transport properties of $\hat{1}^2$ -silicon carbide nanowires. Journal of Applied Physics, 2013, 114, .	2.5	36
41	Reexamination of thermal transport measurements of a low-thermal conductance nanowire with a suspended micro-device. Review of Scientific Instruments, 2013, 84, 084903.	1.3	37
42	Effects of Surface Band Bending and Scattering on Thermoelectric Transport in Suspended Bismuth Telluride Nanoplates. Nano Letters, 2013, 13, 5316-5322.	9.1	129
43	Thermal conductivity of ZnTe nanowires. Journal of Applied Physics, 2013, 114, .	2.5	17
44	Thermal Conductivity and Phonon Transport in Suspended Few-Layer Hexagonal Boron Nitride. Nano Letters, 2013, 13, 550-554.	9.1	585
45	Iodine doping effects on the lattice thermal conductivity of oxidized polyacetylene nanofibers. Journal of Applied Physics, 2013, 114, 194302.	2.5	17
46	Phonon Transport and Thermoelectricity in Defect-Engineered InAs Nanowires. Materials Research Society Symposia Proceedings, 2012, 1404, 36.	0.1	6
47	Thermal transport in graphene. Solid State Communications, 2012, 152, 1321-1330.	1.9	165
48	Thermal Transport in Three-Dimensional Foam Architectures of Few-Layer Graphene and Ultrathin Graphite. Nano Letters, 2012, 12, 2959-2964.	9.1	314
49	Ultrathin Graphite Foam: A Three-Dimensional Conductive Network for Battery Electrodes. Nano Letters, 2012, 12, 2446-2451.	9.1	382
50	Direct observation of heat dissipation in individual suspended carbon nanotubes using a two-laser technique. Journal of Applied Physics, 2011, 110, .	2.5	52
51	Thermal conductivity of indium arsenide nanowires with wurtzite and zinc blende phases. Physical Review B, 2011, 83, .	3.2	96
52	Influence of Polymeric Residue on the Thermal Conductivity of Suspended Bilayer Graphene. Nano Letters, 2011, 11, 1195-1200.	9.1	255
53	Effect of growth base pressure on the thermoelectric properties of indium antimonide nanowires. Journal Physics D: Applied Physics, 2010, 43, 025406.	2.8	50
54	In-plane thermal and thermoelectric properties of misfit-layered $[(\text{PbSe})_{0.99}]_x(\text{WSe}_2)_x$ superlattice thin films. Applied Physics Letters, 2010, 96, .	3.3	38

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55	Two-Dimensional Phonon Transport in Supported Graphene. <i>Science</i> , 2010, 328, 213-216.	12.6	1,692
56	The effect of gas environment on electrical heating in suspended carbon nanotubes. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	41
57	Thermal and Structural Characterizations of Individual Single-, Double-, and Multi-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2009, 19, 3918-3925.	14.9	169
58	Carbon Nanotubes: (Thermal and Structural Characterizations of Individual Single-, Double-, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 NA-NA.	14.9	0
59	Optical Absorption and Thermal Transport of Individual Suspended Carbon Nanotube Bundles. <i>Nano Letters</i> , 2009, 9, 590-594.	9.1	72
60	Thermal conductivity suppression in bismuth nanowires. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	77
61	Thermoelectric and structural characterizations of individual electrodeposited bismuth telluride nanowires. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	151
62	Optical measurement of thermal transport in suspended carbon nanotubes. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	91
63	In-plane thermal conductivity of disordered layered WSe <sub>2</sub> and (W) <sub>x</sub> (WSe <sub>2</sub> ) <sub>y</sub> superlattice films. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	77
64	Determination of Transport Properties in Chromium Disilicide Nanowires via Combined Thermoelectric and Structural Characterizations. <i>Nano Letters</i> , 2007, 7, 1649-1654.	9.1	131
65	Four-probe measurements of the in-plane thermoelectric properties of nanofilms. <i>Review of Scientific Instruments</i> , 2007, 78, 034901.	1.3	106
66	Combined Thermoelectric and Structure Characterizations of Patterned Nanowires. , 2006, , .		4