David G Cahill

List of Publications by Year
in descending order

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166	18,529	18436 62	11899 134
papers	citations	h-index	g-index

170	170	170	14830
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanoscale thermal transport. Journal of Applied Physics, 2003, 93, 793-818.	1.1	2,519
2	Nanoscale thermal transport. II. 2003â€“2012. Applied Physics Reviews, 2014, 1, 011305.	5.5	1,277
3	Analysis of heat flow in layered structures for time-domain thermoreflectance. Review of Scientific Instruments, 2004, 75, 5119-5122.	0.6	1,220
4	Ultralow Thermal Conductivity in Disordered, Layered WSe2 Crystals. Science, 2007, 315, 351-353.	6.0	754
5	Heat transport in thin dielectric films. Journal of Applied Physics, 1997, 81, 2590-2595.	1.1	658
6	Thermal conductivity of Siâ€“Ge superlattices. Applied Physics Letters, 1997, 70, 2957-2959.	1.5	657
7	Thermometry and Thermal Transport in Micro/Nanoscale Solid-State Devices and Structures. Journal of Heat Transfer, 2002, 124, 223-241.	1.2	543
8	Role of thermal boundary resistance on the heat flow in carbon-nanotube composites. Journal of Applied Physics, 2004, 95, 8136-8144.	1.1	474
9	Thermal conductance of interfaces between highly dissimilar materials. Physical Review B, 2006, 73, .	1.1	465
10	Thermal conductance of epitaxial interfaces. Physical Review B, 2003, 67, .	1.1	403
11	Thermal Conductance of Hydrophilic and Hydrophobic Interfaces. Physical Review Letters, 2006, 96, 186101.	2.9	371
12	High thermal conductivity in cubic boron arsenide crystals. Science, 2018, 361, 579-581.	6.0	347
13	Thermal conductance of metal-metal interfaces. Physical Review B, 2005, 72, .	1.1	319
14	Colloidal metal particles as probes of nanoscale thermal transport in fluids. Physical Review B, 2002, 66, .	1.1	267
15	Thermal Conductivity and Elastic Constants of PEDOT:PSS with High Electrical Conductivity. Macromolecules, 2015, 48, 585-591.	2.2	253
16	Thermal conductivity of nanoparticle suspensions. Journal of Applied Physics, 2006, 99, 084308.	1.1	251
17	Thermal conductivity of sputtered oxide films. Physical Review B, 1995, 52, 253-257.	1.1	234
18	Anisotropic Thermal Conductivity of Exfoliated Black Phosphorus. Advanced Materials, 2015, 27, 8017-8022.	11.1	221

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19	Measurement of the anisotropic thermal conductivity of molybdenum disulfide by the time-resolved magneto-optic Kerr effect. Journal of Applied Physics, 2014, 116, .	1.1	210
20	Thermal Conductivity, Heat Capacity, and Elastic Constants of Water-Soluble Polymers and Polymer Blends. Macromolecules, 2016, 49, 972-978.	2.2	201
21	Anisotropic failure of Fourier theory in time-domain thermoreflectance experiments. Nature Communications, 2014, 5, 5075.	5.8	182
22	Thermal conductivity and dynamic heat capacity across the metal-insulator transition in thin film VO2. Applied Physics Letters, 2010, 96, .	1.5	178
23	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. Science, 2020, 367, 555-559.	6.0	177
24	Two-tint pump-probe measurements using a femtosecond laser oscillator and sharp-edged optical filters. Review of Scientific Instruments, 2008, 79, 114901.	0.6	173
25	Comparison of the 3Ï‰ method and time-domain thermoreflectance for measurements of the cross-plane thermal conductivity of epitaxial semiconductors. Journal of Applied Physics, 2009, 105, .	1.1	168
26	Spin current generated by thermally driven ultrafast demagnetization. Nature Communications, 2014, 5, 4334.	5.8	158
27	Thermal conductance of metalâ€“diamond interfaces at high pressure. Nature Communications, 2015, 6, 6578.	5.8	146
28	Probing anisotropic heat transport using time-domain thermoreflectance with offset laser spots. Review of Scientific Instruments, 2012, 83, 104901.	0.6	138
29	Electrochemically tunable thermal conductivity of lithium cobalt oxide. Nature Communications, 2014, 5, 4035.	5.8	137
30	Tuning thermal conductivity in molybdenum disulfide by electrochemical intercalation. Nature Communications, 2016, 7, 13211.	5.8	136
31	Thermal spin-transfer torque driven by the spin-dependent Seebeck effect in metallic spin-valves. Nature Physics, 2015, 11, 576-581.	6.5	133
32	AuPd Metal Nanoparticles as Probes of Nanoscale Thermal Transport in Aqueous Solution. Journal of Physical Chemistry B, 2004, 108, 18870-18875.	1.2	132
33	Anomalous spinâ€“orbit torques in magnetic single-layer films. Nature Nanotechnology, 2019, 14, 819-824.	15.6	130
34	Extremely anisotropic van der Waals thermal conductors. Nature, 2021, 597, 660-665.	13.7	127
35	Thermal conductivity of silicon nanowire arrays with controlled roughness. Journal of Applied Physics, 2012, 112, .	1.1	120
36	Thermal conductivity of (Zr,W)N/ScN metal/semiconductor multilayers and superlattices. Journal of Applied Physics, 2009, 105, .	1.1	114

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37	Thermoreflectance of metal transducers for optical pump-probe studies of thermal properties. Optics Express, 2012, 20, 28829.	1.7	109
38	Pump-probe measurements of the thermal conductivity tensor for materials lacking in-plane symmetry. Review of Scientific Instruments, 2014, 85, 104903.	0.6	104
39	Light-triggered thermal conductivity switching in azobenzene polymers. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5973-5978.	3.3	99
40	Ultralow thermal conductivity of fullerene derivatives. Physical Review B, 2013, 88, .	1.1	98
41	Lattice thermal conductivity of nanostructured thermoelectric materials based on PbTe. Applied Physics Letters, 2009, 94, .	1.5	95
42	Flexible and Stretchable 3Ï‰ Sensors for Thermal Characterization of Human Skin. Advanced Functional Materials, 2017, 27, 1701282.	7.8	90
43	Interfacial thermal conductance in spun-cast polymer films and polymer brushes. Applied Physics Letters, 2010, 97, .	1.5	87
44	Lower limit to the lattice thermal conductivity of nanostructured Bi2Te3-based materials. Journal of Applied Physics, 2009, 106, .	1.1	86
45	Direct Synthesis of Largeâ€Scale WTe₂ Thin Films with Low Thermal Conductivity. Advanced Functional Materials, 2017, 27, 1605928.	7.8	86
46	High and low thermal conductivity of amorphous macromolecules. Physical Review B, 2017, 95, .	1.1	85
47	Thermally Functional Liquid Crystal Networks by Magnetic Field Driven Molecular Orientation. ACS Macro Letters, 2016, 5, 955-960.	2.3	84
48	Low thermal conductivity in nanoscale layered materials synthesized by the method of modulated elemental reactants. Journal of Applied Physics, 2008, 104, .	1.1	80
49	Thermoreflectance of metal transducers for time-domain thermoreflectance. Journal of Applied Physics, 2010, 108, .	1.1	80
50	Nanoscale pattern formation in Pt thin films due to ion-beam-induced dewetting. Applied Physics Letters, 2000, 76, 3215-3217.	1.5	79
51	Morphology of epitaxial TiN(001) grown by magnetron sputtering. Applied Physics Letters, 1997, 70, 1703-1705.	1.5	78
52	Thermal conductivity of isotopically pure and Ge-doped Si epitaxial layers from300to550K. Physical Review B, 2004, 70, .	1.1	78
53	Invited Article: Micron resolution spatially resolved measurement of heat capacity using dual-frequency time-domain thermoreflectance. Review of Scientific Instruments, 2013, 84, 071301.	0.6	77
54	Characterization of nanostructured metal films by picosecond acoustics and interferometry. Journal of Applied Physics, 2001, 90, 4852-4858.	1.1	76

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55	3D Anisotropic Thermal Conductivity of Exfoliated Rhenium Disulfide. Advanced Materials, 2017, 29, 1700650.	11.1	76
56	Thermal conductivity of GaN, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>GaN</mml:mi><mml:mprescripts /><mml:none /><mml:mn>71</mml:mn></mml:mmultiscripts></mml:math> , and SiC from 150 K to 850 K. Physical Review Materials, 2019, 3, .	0.9	74
57	High Thermal Conductivity in Isotopically Enriched Cubic Boron Phosphide. Advanced Functional Materials, 2018, 28, 1805116.	7.8	73
58	Picosecond Spin Seebeck Effect. Physical Review Letters, 2017, 118, 057201.	2.9	71
59	Coexistence of Low Damping and Strong Magnetoelastic Coupling in Epitaxial Spinel Ferrite Thin Films. Advanced Materials, 2017, 29, 1701130.	11.1	71
60	Evaluating Broader Impacts of Nanoscale Thermal Transport Research. Nanoscale and Microscale Thermophysical Engineering, 2015, 19, 127-165.	1.4	69
61	Thermal conductivity of compressed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>O to 22 GPa: A test of the Leibfried-SchlÃ¶mann equation. Physical Review B, 2011, 83, .	1.1	68
62	Optical-helicity-driven magnetization dynamics in metallic ferromagnets. Nature Communications, 2017, 8, 15085.	5.8	68
63	Thermal conductance of strongly bonded metal-oxide interfaces. Physical Review B, 2015, 91, .	1.1	65
64	Dewetting and nanopattern formation of thin Pt films on SiO2 induced by ion beam irradiation. Journal of Applied Physics, 2001, 89, 7777-7783.	1.1	63
65	Dynamics of femtosecond laser-induced melting of silver. Physical Review B, 2008, 78, .	1.1	60
66	Interfacial Thermal Conductance of Transferâ€Printed Metal Films. Advanced Materials, 2011, 23, 5028-5033.	11.1	60
67	Thermal conductivity and sound velocities of hydrogen-silsesquioxane low-kdielectrics. Physical Review B, 2002, 65, .	1.1	59
68	Interpreting picosecond acoustics in the case of low interface stiffness. Review of Scientific Instruments, 2012, 83, 114902.	0.6	59
69	Fullerene thermal insulation for phase change memory. Applied Physics Letters, 2008, 92, 013109.	1.5	58
70	Thermal conductivity as a metric for the crystalline quality of SrTiO3 epitaxial layers. Applied Physics Letters, 2011, 98, 221904.	1.5	58
71	Ultrafast demagnetization of FePt:Cu thin films and the role of magnetic heat capacity. Physical Review B, 2014, 90, .	1.1	55
72	Suppression of thermal conductivity in InxGa1â^'xN alloys by nanometer-scale disorder. Applied Physics Letters, 2013, 102, 121906.	1.5	53

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73	Evolution of surface waviness in thin films via volume and surface diffusion. Journal of Applied Physics, 2005, 97, 013521.	1.1	52
74	Spin-dependent thermal transport perpendicular to the planes of Co/Cu multilayers. Physical Review B, 2015, 91, .	1.1	50
75	Elastic constants, Poisson ratios, and the elastic anisotropy of VN(001), (011), and (111) epitaxial layers grown by reactive magnetron sputter deposition. Journal of Applied Physics, 2014, 115, 214908.	1.1	49
76	Indirect heating of Pt by short-pulse laser irradiation of Au in a nanoscale Pt/Au bilayer. Physical Review B, 2014, 89, .	1.1	47
77	Thermal conductance of interfaces with amorphous <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold">SiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> measured by time-resolved magneto-optic Kerr-effect thermometry. Physical Review B, 2017, 95, .	1.1	46
78	Burrowing of Pt nanoparticles into SiO2 during ion-beam irradiation. Journal of Applied Physics, 2002, 92, 3995-4000.	1.1	44
79	Low thermal conductivity in Ge2Sb2Te5â€“SiOx for phase change memory devices. Applied Physics Letters, 2009, 94, 243103.	1.5	44
80	Nonlocal theory for heat transport at high frequencies. Physical Review B, 2014, 90, .	1.1	44
81	Evolution of surface roughness in epitaxial Si0.7Ge0.3(001) as a function of growth temperature (200â€“600â€‰Â°C) and Si(001) substrate miscut. Journal of Applied Physics, 1996, 80, 2199-2210.	1.1	43
82	Micron-scale measurements of the coefficient of thermal expansion by time-domain probe beam deflection. Journal of Applied Physics, 2008, 104, .	1.1	40
83	High quality factor nanocrystalline diamond micromechanical resonators limited by thermoelastic damping. Applied Physics Letters, 2014, 104, .	1.5	36
84	Limits to Fourier theory in high thermal conductivity single crystals. Applied Physics Letters, 2015, 107, .	1.5	36
85	Thermal Conductivity of Graphite Thin Films Grown by Low Temperature Chemical Vapor Deposition on Ni (111). Advanced Materials Interfaces, 2016, 3, 1600234.	1.9	35
86	Role of Remote Interfacial Phonon (RIP) Scattering in Heat Transport Across Graphene/SiO₂ Interfaces. Nano Letters, 2016, 16, 6014-6020.	4.5	35
87	Plasmonic Sensing of Heat Transport at Solidâ€“Liquid Interfaces. Journal of Physical Chemistry C, 2016, 120, 2814-2821.	1.5	34
88	Phonon and electron contributions to the thermal conductivity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">V</mml:mi><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> epitaxial layers. Physical Review Materials, 2017, 1, .	0.9	34
89	Morphological instabilities in thin-film growth and etching. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, S110-S116.	0.9	32
90	Condensation Induced Blistering as a Measurement Technique for the Adhesion Energy of Nanoscale Polymer Films. Nano Letters, 2020, 20, 3918-3924.	4.5	32

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91	Anisotropic Thermal Transport in Thermoelectric Composites of Conjugated Polyelectrolytes/Single-Walled Carbon Nanotubes. Macromolecules, 2016, 49, 4957-4963.	2.2	31
92	Synthesis and Properties of Turbostratically Disordered, Ultrathin WSe₂ Films. Chemistry of Materials, 2010, 22, 2750-2756.	3.2	30
93	Highly efficient transverse thermoelectric devices with Re₄Si₇ crystals. Energy and Environmental Science, 2021, 14, 4009-4017.	15.6	29
94	Thermal transport in layer-by-layer assembled polycrystalline graphene films. Npj 2D Materials and Applications, 2019, 3, .	3.9	28
95	Inâ€‰situtransmission electron microscopy study of irradiation induced dewetting of ultrathin Pt films. Journal of Applied Physics, 2003, 93, 165-169.	1.1	27
96	Micron-scale apparatus for measurements of thermodiffusion in liquids. Review of Scientific Instruments, 2004, 75, 2368-2372.	0.6	27
97	Spin diffusion induced by pulsed-laser heating and the role of spin heat accumulation. Physical Review B, 2017, 95, .	1.1	27
98	Microcrystalline diamond micromechanical resonators with quality factor limited by thermoelastic damping. Applied Physics Letters, 2013, 102, .	1.5	26
99	Low thermal conductivity of CsBiNb2O7 epitaxial layers. Applied Physics Letters, 2010, 96, .	1.5	25
100	Effect of Aromatic/Aliphatic Structure and Cross-Linking Density on the Thermal Conductivity of Epoxy Resins. ACS Applied Polymer Materials, 2021, 3, 1555-1562.	2.0	25
101	Stress evolution in platinum thin films during low-energy ion irradiation. Physical Review B, 2008, 77, .	1.1	24
102	Solution-Processed Cu2Se Nanocrystal Films with Bulk-Like Thermoelectric Performance. Scientific Reports, 2017, 7, 2765.	1.6	24
103	Patterning of metal nanowires by directed ion-induced dewetting. Applied Physics Letters, 2006, 89, 053103.	1.5	23
104	Thermal conductivity reduction of crystalline silicon by high-pressure torsion. Nanoscale Research Letters, 2014, 9, 326.	3.1	23
105	Good Solidâ€‰State Electrolytes Have Low, Glassâ€‰Like Thermal Conductivity. Small, 2021, 17, e2101693.	5.2	23
106	High Contrast Thermal Conductivity Change in Niâ€“Mnâ€“In Heusler Alloys near Room Temperature. Advanced Engineering Materials, 2019, 21, 1801342.	1.6	22
107	Ultralow thermal conductivity of turbostratically disordered MoSe₂ ultra-thin films and implications for heterostructures. Nanotechnology, 2019, 30, 285401.	1.3	21
108	High-throughput measurements of materials properties. Jom, 2011, 63, 40-44.	0.9	20

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109	High Power Density Pyroelectric Energy Conversion in Nanometer-Thick BaTiO₃ Films. Nanoscale and Microscale Thermophysical Engineering, 2016, 20, 137-146.	1.4	20
110	Thermal Conductivity in the Radial Direction of Deformed Polymer Fibers. ACS Macro Letters, 2016, 5, 646-650.	2.3	20
111	Percolation of thermal conductivity in amorphous fluorocarbons. Physical Review B, 2010, 82, .	1.1	19
112	Thermal-conductivity measurement by time-domain thermoreflectance. MRS Bulletin, 2018, 43, 782-789.	1.7	19
113	Thermal Visualization of Buried Interfaces Enabled by Ratio Signal and Steady-State Heating of Time-Domain Thermoreflectance. ACS Applied Materials & Interfaces, 2021, 13, 31843-31851.	4.0	19
114	High Thermal Conductivity Semicrystalline Epoxy Resins with Anthraquinone-Based Hardeners. ACS Applied Polymer Materials, 2021, 3, 4430-4435.	2.0	19
115	Temperature dependence of surface phonon polaritons from a quartz grating. Journal of Applied Physics, 2011, 110, 043517.	1.1	18
116	Density, Elastic Constants, and Thermal Conductivity of Interfacially Polymerized Polyamide Films for Reverse Osmosis Membranes. ACS Applied Nano Materials, 2018, 1, 5008-5018.	2.4	18
117	Strained layer instabilities on vicinal surfaces: Ge0.8Si0.2 epitaxy on laser textured Si(001). Applied Physics Letters, 2004, 85, 1238-1240.	1.5	17
118	Effect of Linker Length and Temperature on the Thermal Conductivity of Ethylene Dynamic Networks. ACS Macro Letters, 2021, 10, 1088-1093.	2.3	17
119	Ablation of crystalline oxides by infrared femtosecond laser pulses. Journal of Applied Physics, 2006, 100, 083519.	1.1	16
120	Generation and detection of gigahertz surface acoustic waves using an elastomeric phase-shift mask. Journal of Applied Physics, 2013, 114, .	1.1	16
121	High-resolution picosecond acoustic microscopy for non-invasive characterization of buried interfaces. Journal of Materials Research, 2006, 21, 1204-1208.	1.2	14
122	Synthesis, Characterization, and Ultralow Thermal Conductivity of a Lattice-Mismatched SnSe₂(MoSe₂)_{1.32} Heterostructure. Chemistry of Materials, 2019, 31, 5699-5705.	3.2	14
123	Nonequilibrium heat transport in Pt and Ru probed by an ultrathin Co thermometer. Physical Review B, 2020, 101, .	1.1	14
124	Anisotropic thermal conductivity of layered indium selenide. Applied Physics Letters, 2021, 118, .	1.5	14
125	Perspective on thermal conductance across heterogeneously integrated interfaces for wide and ultrawide bandgap electronics. Applied Physics Letters, 2022, 120, .	1.5	14
126	Morphology and microstructure of tensile-strained SiGe(001) thin epitaxial films. Journal of Applied Physics, 1998, 83, 1096-1102.	1.1	13

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127	Stress-induced wrinkling of sputtered SiO2 films on polymethylmethacrylate. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 324-327.	0.9	13
128	Curvature induced phase stability of an intensely heated liquid. Journal of Chemical Physics, 2014, 140, 234506.	1.2	13
129	Anisotropic thermal and electrical conductivities of individual polyacrylonitrile-based carbon fibers. Carbon, 2022, 197, 1-9.	5.4	13
130	Ultralow Thermal Conductivity in Nanoporous Crystalline Fe₃O₄. Journal of Physical Chemistry C, 2021, 125, 6897-6908.	1.5	12
131	Time resolved measurements of melting and solidification in Si using third harmonic generation of light. Applied Physics Letters, 2007, 91, 011906.	1.5	11
132	Micro- and Nanoscale Measurement Methods for Phase Change Heat Transfer on Planar and Structured Surfaces. Nanoscale and Microscale Thermophysical Engineering, 2014, 18, 270-287.	1.4	11
133	Surface roughness and pattern formation during homoepitaxial growth of Ge(001) at low temperatures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 1816.	1.6	10
134	Thermal Conductivity of Oxide Tunnel Barriers in Magnetic Tunnel Junctions Measured by Ultrafast Thermoreflectance and Magneto-Optic Kerr Effect Thermometry. Physical Review Applied, 2020, 13, .	1.5	10
135	Thermal conductivity of the nâ€‰=â€‰1â€“5 and 10 members of the (SrTiO3)nSrO Ruddlesdenâ€“Popper superlattices. Applied Physics Letters, 2021, 118, .	1.5	9
136	Elastic constants of cubic boron phosphide and boron arsenide. Physical Review Materials, 2021, 5, .	0.9	9
137	Magneto-optic response of the metallic antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> to ultrafast temperature excursions. Physical Review Materials, 2019, 3, .	0.9	9
138	Heat transport in micron thick a-Si: H films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 677-682.	0.6	8
139	Laser-Induced Blistering of Thin SiO2on Si. Microscale Thermophysical Engineering, 2005, 9, 155-164.	1.2	8
140	Influence of defects and doping on optical phonon lifetime and Raman linewidth in carbon nanotubes. Physical Review B, 2011, 83, .	1.1	8
141	Properties of bulk scandium nitride crystals grown by physical vapor transport. Applied Physics Letters, 2020, 116, .	1.5	8
142	Effect of isotope disorder on the Raman spectra of cubic boron arsenide. Physical Review Materials, 2021, 5, .	0.9	8
143	Measurement of water vapor diffusion in nanoscale polymer films by frequency-domain probe beam deflection. Review of Scientific Instruments, 2018, 89, 104904.	0.6	7
144	Magnetocrystalline anisotropy of the easy-plane metallic antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>As</mml:mi></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	1.1	7

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145	Ph transport through the magnetic martensitic transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>M</mml:mi><mml:mi>Ge</mml:mi><mml:mrow><m	0.9	7
146	Ph Role of Thin Film Adhesion on Capillary Peeling. Nano Letters, 2021, 21, 9983-9989.	4.5	7
147	Heat Transfer at Solidâ€“Gas Interfaces by Photoacoustics at Brillouin Frequencies. Journal of Physical Chemistry C, 2012, 116, 10896-10903.	1.5	6
148	Sensors: Flexible and Stretchable 3Ï‰ Sensors for Thermal Characterization of Human Skin (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10	7.8	6
149	Thermal conductivity mapping of oxidized SiC/SiC composites by timeâ€domain thermoreflectance with heterodyne detection. Journal of the American Ceramic Society, 2021, 104, 4773-4781.	1.9	6
150	Fast, spatially resolved thermometry of Si and GaP crystals using pump-probe two-photon absorption. Journal of Applied Physics, 2009, 106, .	1.1	5
151	Ultralow shear modulus of incommensurate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>[</mml:mo><mml:mi>SnSe</mml:mi> layers synthesized by the method of modulated elemental reactants. Physical Review Materials, 2019, 3, .	0.9	5
152	UV spectroscopy of metal volatilization during thermal plasma processing of waste glass melts. Plasma Chemistry and Plasma Processing, 1996, 16, 449-460.	1.1	4
153	X-ray study of strain and composition of Siâˆ•Ge0.85Si0.15(111) islands grown in Volmer-Weber mode. Journal of Applied Physics, 2004, 96, 3234-3238.	1.1	4
154	Plasmonic Sensing of Ultrafast Evaporation and Condensation. Nanoscale and Microscale Thermophysical Engineering, 2017, 21, 70-80.	1.4	4
155	Battery absorbs heat during charging uncovered by ultra-sensitive thermometry. Journal of Power Sources, 2022, 518, 230762.	4.0	4
156	Spatially Resolved Measurements of Thermal Stresses by Picosecond Time-Domain Probe Beam Deflection. Journal of Thermal Stresses, 2009, 33, 9-14.	1.1	3
157	Microscale, bendable thermoreflectance sensor for local measurements of the thermal effusivity of biological fluids and tissues. Review of Scientific Instruments, 2020, 91, 044903.	0.6	3
158	In situ defect quantification and phase identification during flash sintering using Raman spectroscopy. Journal of the American Ceramic Society, 2021, 104, 3873-3882.	1.9	2
159	Temperature Dependence of the Anisotropic Magnetoresistance of the Metallic Antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>As</mml:mi></mml:math>.	1.5	2
160	Polar magneto-optical Kerr effect in antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>M</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m mathvariant="normal">As</mml:mi><mml:mo>Â</mml:mo><mml:mrow><mml:mo>(</mml:mo><mml:mi>M</mml:mi><mml:mo>=</m	1.1	2
161	Coarsening and Slope Selection During Crystal Growth and Etching of Ge(001). Materials Research Society Symposia Proceedings, 1995, 399, 221.	0.1	1
162	ULTRAFAST SHOCK WAVE COHERENT DISSOCIATION AND SPECTROSCOPY OF MATERIALS. , 2008, , .		1

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163	Microcontact Printing: Interfacial Thermal Conductance of Transfer-Printed Metal Films (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	11.1	1
164	Impact of thermal fluctuations on transport in antiferromagnetic semimetals. Physical Review B, 2018, 98, .	1.1	1
165	Pushing low thermal conductivity to the limit. Science, 2021, 373, 963-964.	6.0	1
166	Identification of Shape Transitions in Coherent Ge/Si Islands Using Transmission Electron Microscopy. Materials Research Society Symposia Proceedings, 1999, 583, 137.	0.1	0