

David G Cahill

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163
papers

15,045
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56
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122
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170
ext. papers

16,896
ext. citations

6.7
avg, IF

6.76
L-index

#	Paper	IF	Citations
163	Nanoscale thermal transport. <i>Journal of Applied Physics</i> , 2003 , 93, 793-818	2.5	2204
162	Nanoscale thermal transport. II. 2003-2012. <i>Applied Physics Reviews</i> , 2014 , 1, 011305	17.3	1050
161	Analysis of heat flow in layered structures for time-domain thermoreflectance. <i>Review of Scientific Instruments</i> , 2004 , 75, 5119-5122	1.7	987
160	Ultralow thermal conductivity in disordered, layered WSe ₂ crystals. <i>Science</i> , 2007 , 315, 351-3	33.3	646
159	Thermal conductivity of SiGe superlattices. <i>Applied Physics Letters</i> , 1997 , 70, 2957-2959	3.4	579
158	Heat transport in thin dielectric films. <i>Journal of Applied Physics</i> , 1997 , 81, 2590-2595	2.5	553
157	Thermometry and Thermal Transport in Micro/Nanoscale Solid-State Devices and Structures. <i>Journal of Heat Transfer</i> , 2002 , 124, 223-241	1.8	476
156	Role of thermal boundary resistance on the heat flow in carbon-nanotube composites. <i>Journal of Applied Physics</i> , 2004 , 95, 8136-8144	2.5	424
155	Thermal conductance of interfaces between highly dissimilar materials. <i>Physical Review B</i> , 2006 , 73,	3.3	397
154	Thermal conductance of epitaxial interfaces. <i>Physical Review B</i> , 2003 , 67,	3.3	355
153	Thermal conductance of hydrophilic and hydrophobic interfaces. <i>Physical Review Letters</i> , 2006 , 96, 1861014	3.3	321
152	Thermal conductance of metal-metal interfaces. <i>Physical Review B</i> , 2005 , 72,	3.3	269
151	Colloidal metal particles as probes of nanoscale thermal transport in fluids. <i>Physical Review B</i> , 2002 , 66,	3.3	236
150	High thermal conductivity in cubic boron arsenide crystals. <i>Science</i> , 2018 , 361, 579-581	33.3	220
149	Thermal conductivity of nanoparticle suspensions. <i>Journal of Applied Physics</i> , 2006 , 99, 084308	2.5	217
148	Thermal Conductivity and Elastic Constants of PEDOT:PSS with High Electrical Conductivity. <i>Macromolecules</i> , 2015 , 48, 585-591	5.5	209
147	Thermal conductivity of sputtered oxide films. <i>Physical Review B</i> , 1995 , 52, 253-257	3.3	201

146	Anisotropic Thermal Conductivity of Exfoliated Black Phosphorus. <i>Advanced Materials</i> , 2015 , 27, 8017-2224		178
145	Measurement of the anisotropic thermal conductivity of molybdenum disulfide by the time-resolved magneto-optic Kerr effect. <i>Journal of Applied Physics</i> , 2014 , 116, 233107	2.5	173
144	Thermal Conductivity, Heat Capacity, and Elastic Constants of Water-Soluble Polymers and Polymer Blends. <i>Macromolecules</i> , 2016 , 49, 972-978	5.5	156
143	Two-tint pump-probe measurements using a femtosecond laser oscillator and sharp-edged optical filters. <i>Review of Scientific Instruments</i> , 2008 , 79, 114901	1.7	152
142	Comparison of the 3 μ m method and time-domain thermoreflectance for measurements of the cross-plane thermal conductivity of epitaxial semiconductors. <i>Journal of Applied Physics</i> , 2009 , 105, 054303	2.5	148
141	Anisotropic failure of Fourier theory in time-domain thermoreflectance experiments. <i>Nature Communications</i> , 2014 , 5, 5075	17.4	146
140	Thermal conductivity and dynamic heat capacity across the metal-insulator transition in thin film VO ₂ . <i>Applied Physics Letters</i> , 2010 , 96, 151906	3.4	140
139	AuPd Metal Nanoparticles as Probes of Nanoscale Thermal Transport in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18870-18875	3.4	121
138	Spin current generated by thermally driven ultrafast demagnetization. <i>Nature Communications</i> , 2014 , 5, 4334	17.4	113
137	Probing anisotropic heat transport using time-domain thermoreflectance with offset laser spots. <i>Review of Scientific Instruments</i> , 2012 , 83, 104901	1.7	111
136	Thermal spin-transfer torque driven by the spin-dependent Seebeck effect in metallic spin-valves. <i>Nature Physics</i> , 2015 , 11, 576-581	16.2	106
135	Thermal conductivity of silicon nanowire arrays with controlled roughness. <i>Journal of Applied Physics</i> , 2012 , 112, 114306	2.5	105
134	Thermal conductance of metal-diamond interfaces at high pressure. <i>Nature Communications</i> , 2015 , 6, 6578	17.4	103
133	Tuning thermal conductivity in molybdenum disulfide by electrochemical intercalation. <i>Nature Communications</i> , 2016 , 7, 13211	17.4	101
132	Thermal conductivity of (Zr,W)N/ScN metal/semiconductor multilayers and superlattices. <i>Journal of Applied Physics</i> , 2009 , 105, 024909	2.5	101
131	Electrochemically tunable thermal conductivity of lithium cobalt oxide. <i>Nature Communications</i> , 2014 , 5, 4035	17.4	92
130	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. <i>Science</i> , 2020 , 367, 555-559	33.3	90
129	Ultralow thermal conductivity of fullerene derivatives. <i>Physical Review B</i> , 2013 , 88,	3.3	82

128	Lattice thermal conductivity of nanostructured thermoelectric materials based on PbTe. <i>Applied Physics Letters</i> , 2009 , 94, 153101	3.4	81
127	Thermoreflectance of metal transducers for optical pump-probe studies of thermal properties. <i>Optics Express</i> , 2012 , 20, 28829-38	3.3	81
126	Interfacial thermal conductance in spun-cast polymer films and polymer brushes. <i>Applied Physics Letters</i> , 2010 , 97, 011908	3.4	79
125	Lower limit to the lattice thermal conductivity of nanostructured Bi ₂ Te ₃ -based materials. <i>Journal of Applied Physics</i> , 2009 , 106, 073503	2.5	78
124	Pump-probe measurements of the thermal conductivity tensor for materials lacking in-plane symmetry. <i>Review of Scientific Instruments</i> , 2014 , 85, 104903	1.7	76
123	Nanoscale pattern formation in Pt thin films due to ion-beam-induced dewetting. <i>Applied Physics Letters</i> , 2000 , 76, 3215-3217	3.4	75
122	Morphology of epitaxial TiN(001) grown by magnetron sputtering. <i>Applied Physics Letters</i> , 1997 , 70, 1703-1705	3.4	73
121	Anomalous spin-orbit torques in magnetic single-layer films. <i>Nature Nanotechnology</i> , 2019 , 14, 819-824	28.7	72
120	Low thermal conductivity in nanoscale layered materials synthesized by the method of modulated elemental reactants. <i>Journal of Applied Physics</i> , 2008 , 104, 033533	2.5	72
119	Flexible and Stretchable 3D Sensors for Thermal Characterization of Human Skin. <i>Advanced Functional Materials</i> , 2017 , 27, 1701282	15.6	71
118	Thermal conductivity of isotopically pure and Ge-doped Si epitaxial layers from 300to550K. <i>Physical Review B</i> , 2004 , 70,	3.3	66
117	Characterization of nanostructured metal films by picosecond acoustics and interferometry. <i>Journal of Applied Physics</i> , 2001 , 90, 4852-4858	2.5	65
116	Direct Synthesis of Large-Scale WTe ₂ Thin Films with Low Thermal Conductivity. <i>Advanced Functional Materials</i> , 2017 , 27, 1605928	15.6	64
115	Thermoreflectance of metal transducers for time-domain thermoreflectance. <i>Journal of Applied Physics</i> , 2010 , 108, 043507	2.5	64
114	High and low thermal conductivity of amorphous macromolecules. <i>Physical Review B</i> , 2017 , 95,	3.3	61
113	Invited article: micron resolution spatially resolved measurement of heat capacity using dual-frequency time-domain thermoreflectance. <i>Review of Scientific Instruments</i> , 2013 , 84, 071301	1.7	60
112	Evaluating Broader Impacts of Nanoscale Thermal Transport Research. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2015 , 19, 127-165	3.7	60
111	Dewetting and nanopattern formation of thin Pt films on SiO ₂ induced by ion beam irradiation. <i>Journal of Applied Physics</i> , 2001 , 89, 7777-7783	2.5	58

110	Light-triggered thermal conductivity switching in azobenzene polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5973-5978	11.5	56
109	Coexistence of Low Damping and Strong Magnetoelastic Coupling in Epitaxial Spinel Ferrite Thin Films. <i>Advanced Materials</i> , 2017 , 29, 1701130	24	56
108	Thermal conductivity and sound velocities of hydrogen-silsesquioxane low-k dielectrics. <i>Physical Review B</i> , 2002 , 65,	3.3	56
107	Thermal conductivity as a metric for the crystalline quality of SrTiO ₃ epitaxial layers. <i>Applied Physics Letters</i> , 2011 , 98, 221904	3.4	55
106	Picosecond Spin Seebeck Effect. <i>Physical Review Letters</i> , 2017 , 118, 057201	7.4	53
105	3D Anisotropic Thermal Conductivity of Exfoliated Rhenium Disulfide. <i>Advanced Materials</i> , 2017 , 29, 1700450	10.5	53
104	Interfacial thermal conductance of transfer-printed metal films. <i>Advanced Materials</i> , 2011 , 23, 5028-33, 5027	24	53
103	Dynamics of femtosecond laser-induced melting of silver. <i>Physical Review B</i> , 2008 , 78,	3.3	53
102	Fullerene thermal insulation for phase change memory. <i>Applied Physics Letters</i> , 2008 , 92, 013109	3.4	52
101	High Thermal Conductivity in Isotopically Enriched Cubic Boron Phosphide. <i>Advanced Functional Materials</i> , 2018 , 28, 1805116	15.6	51
100	Interpreting picosecond acoustics in the case of low interface stiffness. <i>Review of Scientific Instruments</i> , 2012 , 83, 114902	1.7	50
99	Thermal conductivity of compressed H ₂ O to 22 GPa: A test of the Leibfried-Schlömann equation. <i>Physical Review B</i> , 2011 , 83,	3.3	47
98	Thermally Functional Liquid Crystal Networks by Magnetic Field Driven Molecular Orientation. <i>ACS Macro Letters</i> , 2016 , 5, 955-960	6.6	47
97	Thermal conductance of strongly bonded metal-oxide interfaces. <i>Physical Review B</i> , 2015 , 91,	3.3	44
96	Elastic constants, Poisson ratios, and the elastic anisotropy of VN(001), (011), and (111) epitaxial layers grown by reactive magnetron sputter deposition. <i>Journal of Applied Physics</i> , 2014 , 115, 214908	2.5	43
95	Thermal conductivity of GaN, GaN ₇₁ , and SiC from 150 K to 850 K. <i>Physical Review Materials</i> , 2019 , 3,	3.2	43
94	Optical-helicity-driven magnetization dynamics in metallic ferromagnets. <i>Nature Communications</i> , 2017 , 8, 15085	17.4	42
93	Suppression of thermal conductivity in In _x Ga _{1-x} N alloys by nanometer-scale disorder. <i>Applied Physics Letters</i> , 2013 , 102, 121906	3.4	42

92	Ultrafast demagnetization of FePt:Cu thin films and the role of magnetic heat capacity. <i>Physical Review B</i> , 2014 , 90,	3.3	41
91	Nonlocal theory for heat transport at high frequencies. <i>Physical Review B</i> , 2014 , 90,	3.3	41
90	Evolution of surface waviness in thin films via volume and surface diffusion. <i>Journal of Applied Physics</i> , 2005 , 97, 013521	2.5	40
89	Burrowing of Pt nanoparticles into SiO ₂ during ion-beam irradiation. <i>Journal of Applied Physics</i> , 2002 , 92, 3995-4000	2.5	39
88	Low thermal conductivity in Ge ₂ Sb ₂ Te ₅ BiO _x for phase change memory devices. <i>Applied Physics Letters</i> , 2009 , 94, 243103	3.4	38
87	Evolution of surface roughness in epitaxial Si _{0.7} Ge _{0.3} (001) as a function of growth temperature (200–800 °C) and Si(001) substrate miscut. <i>Journal of Applied Physics</i> , 1996 , 80, 2199-2210	2.5	38
86	Indirect heating of Pt by short-pulse laser irradiation of Au in a nanoscale Pt/Au bilayer. <i>Physical Review B</i> , 2014 , 89,	3.3	37
85	Thermal conductance of interfaces with amorphous SiO ₂ measured by time-resolved magneto-optic Kerr-effect thermometry. <i>Physical Review B</i> , 2017 , 95,	3.3	36
84	Micron-scale measurements of the coefficient of thermal expansion by time-domain probe beam deflection. <i>Journal of Applied Physics</i> , 2008 , 104, 073509	2.5	34
83	High quality factor nanocrystalline diamond micromechanical resonators limited by thermoelastic damping. <i>Applied Physics Letters</i> , 2014 , 104, 151903	3.4	31
82	Morphological instabilities in thin-film growth and etching. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003 , 21, S110-S116	2.9	31
81	Spin-dependent thermal transport perpendicular to the planes of Co/Cu multilayers. <i>Physical Review B</i> , 2015 , 91,	3.3	30
80	Limits to Fourier theory in high thermal conductivity single crystals. <i>Applied Physics Letters</i> , 2015 , 107, 203112	3.4	29
79	Plasmonic Sensing of Heat Transport at Solid-Liquid Interfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2814-2821	3.8	28
78	Synthesis and Properties of Turbostratically Disordered, Ultrathin WSe ₂ Films. <i>Chemistry of Materials</i> , 2010 , 22, 2750-2756	9.6	28
77	Phonon and electron contributions to the thermal conductivity of VN _x epitaxial layers. <i>Physical Review Materials</i> , 2017 , 1,	3.2	28
76	Role of Remote Interfacial Phonon (RIP) Scattering in Heat Transport Across Graphene/SiO ₂ Interfaces. <i>Nano Letters</i> , 2016 , 16, 6014-6020	11.5	27
75	Anisotropic Thermal Transport in Thermoelectric Composites of Conjugated Polyelectrolytes/Single-Walled Carbon Nanotubes. <i>Macromolecules</i> , 2016 , 49, 4957-4963	5.5	26

74	Micron-scale apparatus for measurements of thermodiffusion in liquids. <i>Review of Scientific Instruments</i> , 2004 , 75, 2368-2372	1.7	26
73	In situ transmission electron microscopy study of irradiation induced dewetting of ultrathin Pt films. <i>Journal of Applied Physics</i> , 2003 , 93, 165-169	2.5	26
72	Thermal Conductivity of Graphite Thin Films Grown by Low Temperature Chemical Vapor Deposition on Ni (111). <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600234	4.6	24
71	Condensation Induced Blistering as a Measurement Technique for the Adhesion Energy of Nanoscale Polymer Films. <i>Nano Letters</i> , 2020 , 20, 3918-3924	11.5	22
70	Stress evolution in platinum thin films during low-energy ion irradiation. <i>Physical Review B</i> , 2008 , 77,	3.3	22
69	Patterning of metal nanowires by directed ion-induced dewetting. <i>Applied Physics Letters</i> , 2006 , 89, 053103	1.03	22
68	Thermal transport in layer-by-layer assembled polycrystalline graphene films. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	21
67	Microcrystalline diamond micromechanical resonators with quality factor limited by thermoelastic damping. <i>Applied Physics Letters</i> , 2013 , 102, 071901	3.4	21
66	Low thermal conductivity of CsBiNb2O7 epitaxial layers. <i>Applied Physics Letters</i> , 2010 , 96, 121903	3.4	21
65	Extremely anisotropic van der Waals thermal conductors. <i>Nature</i> , 2021 , 597, 660-665	50.4	20
64	Thermal conductivity reduction of crystalline silicon by high-pressure torsion. <i>Nanoscale Research Letters</i> , 2014 , 9, 326	5	18
63	High-throughput measurements of materials properties. <i>Jom</i> , 2011 , 63, 40-44	2.1	18
62	Solution-Processed CuSe Nanocrystal Films with Bulk-Like Thermoelectric Performance. <i>Scientific Reports</i> , 2017 , 7, 2765	4.9	17
61	Temperature dependence of surface phonon polaritons from a quartz grating. <i>Journal of Applied Physics</i> , 2011 , 110, 043517	2.5	17
60	Thermal Conductivity in the Radial Direction of Deformed Polymer Fibers. <i>ACS Macro Letters</i> , 2016 , 5, 646-650	6.6	17
59	Generation and detection of gigahertz surface acoustic waves using an elastomeric phase-shift mask. <i>Journal of Applied Physics</i> , 2013 , 114, 143102	2.5	16
58	Strained layer instabilities on vicinal surfaces: Ge _{0.8} Si _{0.2} epitaxy on laser textured Si(001). <i>Applied Physics Letters</i> , 2004 , 85, 1238-1240	3.4	16
57	Ultralow thermal conductivity of turbostratically disordered MoSe ultra-thin films and implications for heterostructures. <i>Nanotechnology</i> , 2019 , 30, 285401	3.4	16

56	Percolation of thermal conductivity in amorphous fluorocarbons. <i>Physical Review B</i> , 2010 , 82,	3.3	15
55	Spin diffusion induced by pulsed-laser heating and the role of spin heat accumulation. <i>Physical Review B</i> , 2017 , 95,	3.3	14
54	High-resolution picosecond acoustic microscopy for non-invasive characterization of buried interfaces. <i>Journal of Materials Research</i> , 2006 , 21, 1204-1208	2.5	13
53	Ablation of crystalline oxides by infrared femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2006 , 100, 083519	2.5	13
52	Morphology and microstructure of tensile-strained SiGe(001) thin epitaxial films. <i>Journal of Applied Physics</i> , 1998 , 83, 1096-1102	2.5	13
51	High Contrast Thermal Conductivity Change in NiMnIn Heusler Alloys near Room Temperature. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801342	3.5	12
50	High Power Density Pyroelectric Energy Conversion in Nanometer-Thick BaTiO ₃ Films. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2016 , 20, 137-146	3.7	12
49	Stress-induced wrinkling of sputtered SiO ₂ films on polymethylmethacrylate. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 324-327	2.9	11
48	Nonequilibrium heat transport in Pt and Ru probed by an ultrathin Co thermometer. <i>Physical Review B</i> , 2020 , 101,	3.3	10
47	Synthesis, Characterization, and Ultralow Thermal Conductivity of a Lattice-Mismatched SnSe ₂ (MoSe ₂) _{1.32} Heterostructure. <i>Chemistry of Materials</i> , 2019 , 31, 5699-5705	9.6	10
46	Micro- and Nanoscale Measurement Methods for Phase Change Heat Transfer on Planar and Structured Surfaces. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2014 , 18, 270-287	3.7	10
45	Curvature induced phase stability of an intensely heated liquid. <i>Journal of Chemical Physics</i> , 2014 , 140, 234506	3.9	10
44	Surface roughness and pattern formation during homoepitaxial growth of Ge(001) at low temperatures. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1995 , 13, 1816		10
43	Density, Elastic Constants, and Thermal Conductivity of Interfacially Polymerized Polyamide Films for Reverse Osmosis Membranes. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5008-5018	5.6	10
42	Thermal Visualization of Buried Interfaces Enabled by Ratio Signal and Steady-State Heating of Time-Domain Thermoreflectance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31843-31851	9.5	9
41	Good Solid-State Electrolytes Have Low, Glass-Like Thermal Conductivity. <i>Small</i> , 2021 , 17, e2101693	11	8
40	Thermal-conductivity measurement by time-domain thermoreflectance. <i>MRS Bulletin</i> , 2018 , 43, 782-789	3.2	8
39	Influence of defects and doping on optical phonon lifetime and Raman linewidth in carbon nanotubes. <i>Physical Review B</i> , 2011 , 83,	3.3	7

38	Time resolved measurements of melting and solidification in Si using third harmonic generation of light. <i>Applied Physics Letters</i> , 2007 , 91, 011906	3.4	7
37	Heat transport in micron thick a-Si: H films. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995 , 71, 677-682		7
36	Properties of bulk scandium nitride crystals grown by physical vapor transport. <i>Applied Physics Letters</i> , 2020 , 116, 132103	3.4	6
35	Heat Transfer at Solid-Gas Interfaces by Photoacoustics at Brillouin Frequencies. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10896-10903	3.8	6
34	Highly efficient transverse thermoelectric devices with Re ₄ Si ₇ crystals. <i>Energy and Environmental Science</i> , 2021 , 14, 4009-4017	35.4	6
33	Thermal Conductivity of Oxide Tunnel Barriers in Magnetic Tunnel Junctions Measured by Ultrafast Thermoreflectance and Magneto-Optic Kerr Effect Thermometry. <i>Physical Review Applied</i> , 2020 , 13,	4.3	5
32	Fast, spatially resolved thermometry of Si and GaP crystals using pump-probe two-photon absorption. <i>Journal of Applied Physics</i> , 2009 , 106, 013102	2.5	5
31	Laser-Induced Blistering of Thin SiO ₂ on Si. <i>Microscale Thermophysical Engineering</i> , 2005 , 9, 155-164		5
30	Effect of Aromatic/Aliphatic Structure and Cross-Linking Density on the Thermal Conductivity of Epoxy Resins. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1555-1562	4.3	5
29	Measurement of water vapor diffusion in nanoscale polymer films by frequency-domain probe beam deflection. <i>Review of Scientific Instruments</i> , 2018 , 89, 104904	1.7	5
28	Effect of Linker Length and Temperature on the Thermal Conductivity of Ethylene Dynamic Networks.. <i>ACS Macro Letters</i> , 2021 , 10, 1088-1093	6.6	5
27	High Thermal Conductivity Semicrystalline Epoxy Resins with Anthraquinone-Based Hardeners. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 4430-4435	4.3	5
26	Sensors: Flexible and Stretchable 3D Sensors for Thermal Characterization of Human Skin (Adv. Funct. Mater. 26/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	4
25	Ultralow shear modulus of incommensurate [SnSe] _n [MoSe ₂] _n layers synthesized by the method of modulated elemental reactants. <i>Physical Review Materials</i> , 2019 , 3,	3.2	4
24	Magneto-optic response of the metallic antiferromagnet Fe ₂ As to ultrafast temperature excursions. <i>Physical Review Materials</i> , 2019 , 3,	3.2	4
23	Thermal conductivity of the n = 8 and 10 members of the (SrTiO ₃) _n SrO Ruddlesden-Popper superlattices. <i>Applied Physics Letters</i> , 2021 , 118, 091904	3.4	4
22	Plasmonic Sensing of Ultrafast Evaporation and Condensation. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2017 , 21, 70-80	3.7	3
21	X-ray study of strain and composition of Si _{1-x} Ge _x islands grown in Volmer-Weber mode. <i>Journal of Applied Physics</i> , 2004 , 96, 3234-3238	2.5	3

20	UV spectroscopy of metal volatilization during thermal plasma processing of waste glass melts. <i>Plasma Chemistry and Plasma Processing</i> , 1996 , 16, 449-460	3.6	3
19	Thermal transport through the magnetic martensitic transition in Mn_xMGe ($M=Co, Ni$). <i>Physical Review Materials</i> , 2018 , 2,	3.2	3
18	Ultralow Thermal Conductivity in Nanoporous Crystalline Fe_3O_4 . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6897-6908	3.8	3
17	Elastic constants of cubic boron phosphide and boron arsenide. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
16	Spatially Resolved Measurements of Thermal Stresses by Picosecond Time-Domain Probe Beam Deflection. <i>Journal of Thermal Stresses</i> , 2009 , 33, 9-14	2.2	2
15	Perspective on thermal conductance across heterogeneously integrated interfaces for wide and ultrawide bandgap electronics. <i>Applied Physics Letters</i> , 2022 , 120, 030501	3.4	2
14	Role of Thin Film Adhesion on Capillary Peeling. <i>Nano Letters</i> , 2021 , 21, 9983-9989	11.5	2
13	Magnetocrystalline anisotropy of the easy-plane metallic antiferromagnet Fe_2As . <i>Physical Review B</i> , 2020 , 102,	3.3	2
12	Effect of isotope disorder on the Raman spectra of cubic boron arsenide. <i>Physical Review Materials</i> , 2021 , 5,	3.2	2
11	Microcontact Printing: Interfacial Thermal Conductance of Transfer-Printed Metal Films (Adv. Mater. 43/2011). <i>Advanced Materials</i> , 2011 , 23, 5027-5027	24	1
10	ULTRAFAST SHOCK WAVE COHERENT DISSOCIATION AND SPECTROSCOPY OF MATERIALS 2008 ,		1
9	Coarsening and Slope Selection During Crystal Growth and Etching of $Ge(001)$. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 399, 221		1
8	Battery absorbs heat during charging uncovered by ultra-sensitive thermometry. <i>Journal of Power Sources</i> , 2022 , 518, 230762	8.9	1
7	Thermal conductivity mapping of oxidized SiC/SiC composites by time-domain thermoreflectance with heterodyne detection. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4773-4781	3.8	1
6	Temperature Dependence of the Anisotropic Magnetoresistance of the Metallic Antiferromagnet Fe_2As . <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
5	Microscale, bendable thermoreflectance sensor for local measurements of the thermal effusivity of biological fluids and tissues. <i>Review of Scientific Instruments</i> , 2020 , 91, 044903	1.7	1
4	Anisotropic thermal conductivity of layered indium selenide. <i>Applied Physics Letters</i> , 2021 , 118, 073101	3.4	1
3	In situ defect quantification and phase identification during flash sintering using Raman spectroscopy. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3873-3882	3.8	0

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