

# Matthias Wuttig

## List of Publications by Year in descending order

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424  
papers

31,912  
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4641

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163  
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445  
all docs

445  
docs citations

445  
times ranked

16938  
citing authors

#	ARTICLE	IF	CITATIONS
1	Halide Perovskites: Advanced Photovoltaic Materials Empowered by a Unique Bonding Mechanism. <i>Advanced Functional Materials</i> , 2022, 32, 2110166.	7.8	35
2	Thermally Controlled Charge-Carrier Transitions in Disordered PbSbTe Chalcogenides. <i>Advanced Materials</i> , 2022, 34, e2106868.	11.1	5
3	Tailoring Crystallization Kinetics of Chalcogenides for Photonic Applications. <i>Advanced Electronic Materials</i> , 2022, 8, 2100974.	2.6	10
4	The glass transition of water, insight from phase change materials. <i>Journal of Non-Crystalline Solids: X</i> , 2022, 14, 100084.	0.5	5
5	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency. <i>Nature Communications</i> , 2022, 13, 1696.	5.8	125
6	Two-Dimensional Platinum Diselenide Waveguide-Integrated Infrared Photodetectors. <i>ACS Photonics</i> , 2022, 9, 859-867.	3.2	14
7	Nanostructured $\text{In}_3\text{SbTe}_2$ antennas enable switching from sharp dielectric to broad plasmonic resonances. <i>Nanophotonics</i> , 2022, 11, 3871-3882.	2.9	14
8	Fragile-to-Strong Transition in Phase-Change Material $\text{Ge}_3\text{Sb}_6\text{Te}_5$ . <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	16
9	Reconfiguring Magnetic Infrared Resonances with the Plasmonic Phase-Change Material $\text{In}_3\text{SbTe}_2$ . <i>ACS Photonics</i> , 2022, 9, 1821-1828.	3.2	11
10	Scaling and Confinement in Ultrathin Chalcogenide Films as Exemplified by GeTe. <i>Small</i> , 2022, 18, e2201753.	5.2	13
11	NEUROTEC I: Neuro-inspired Artificial Intelligence Technologies for the Electronics of the Future. , 2022, , .		0
12	Dynamic doping and Cottrell atmosphere optimize the thermoelectric performance of n-type PbTe over a broad temperature interval. <i>Nano Energy</i> , 2022, 101, 107576.	8.2	16
13	Acceleration of Crystallization Kinetics in $\text{GeSbTe}$ -Based Phase-Change Materials by Substitution of Ge by Sn. <i>Advanced Functional Materials</i> , 2021, 31, 2004803.	7.8	5
14	Enhancing thermoelectric performance of $\text{Sb}_2\text{Te}_3$ through swapped bilayer defects. <i>Nano Energy</i> , 2021, 79, 105484.	8.2	32
15	Metavalent Bonding in Solids: Characteristic Representatives, Their Properties, and Design Options. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000482.	1.2	28
16	Approaching the Glass Transition Temperature of GeTe by Crystallizing $\text{Ge}_{15}\text{Te}_{85}$ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000478.	1.2	12
17	$\text{In}_3\text{SbTe}_2$ as a programmable nanophotonics material platform for the infrared. <i>Nature Communications</i> , 2021, 12, 924.	5.8	57
18	Effects of Different Amounts of Nb Doping on Electrical, Optical and Structural Properties in Sputtered $\text{TiO}_2-x$ Films. <i>Crystals</i> , 2021, 11, 301.	1.0	7

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19	Nb-Mediated Grain Growth and Grain-Boundary Engineering in Mg <sub>3</sub> Sb <sub>2</sub> -Based Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2100258.	7.8	53
20	Combining Switchable Phase-Change Materials and Phase-Transition Materials for Thermally Regulated Smart Mid-Infrared Modulators. <i>Advanced Optical Materials</i> , 2021, 9, 2100417.	3.6	20
21	Programmable Huygens™ metasurfaces for active optical phase control. , 2021, , .		1
22	Boron Strengthened GeTe-Based Alloys for Robust Thermoelectric Devices with High Output Power Density. <i>Advanced Energy Materials</i> , 2021, 11, 2102012.	10.2	39
23	Metavalent Bonding in Crystalline Solids: How Does It Collapse?. <i>Advanced Materials</i> , 2021, 33, e2102356.	11.1	65
24	Polycrystalline SnSe with a thermoelectric figure of merit greater than the single crystal. <i>Nature Materials</i> , 2021, 20, 1378-1384.	13.3	340
25	The potential of chemical bonding to design crystallization and vitrification kinetics. <i>Nature Communications</i> , 2021, 12, 4978.	5.8	35
26	Superconducting Phase Induced by a Local Structure Transition in Amorphous $\text{Sb}_{2\text{Te}}$ under High Pressure. <i>Physical Review Letters</i> , 2021, 127, 127002.	2.9	13
27	Disorder-induced Anderson-like localization for bidimensional thermoelectrics optimization. <i>Matter</i> , 2021, 4, 2970-2984.	5.0	15
28	Boron-Mediated Grain Boundary Engineering Enables Simultaneous Improvement of Thermoelectric and Mechanical Properties in Na-Type Bi <sub>2</sub> Te <sub>3</sub> . <i>Small</i> , 2021, 17, e2104067.	5.2	30
29	How to Identify Lone Pairs, Van der Waals Gaps, and Metavalent Bonding Using Charge and Pair Density Methods: From Elemental Chalcogens to Lead Chalcogenides and Phase-Change Materials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000534.	1.2	19
30	Ultra-Thin Switchable Absorbers Based on Lossy Phase-Change Materials. <i>Advanced Optical Materials</i> , 2021, 9, 2101118.	3.6	19
31	Thermodynamics and kinetics of glassy and liquid phase-change materials. <i>Materials Science in Semiconductor Processing</i> , 2021, 135, 106094.	1.9	7
32	Glass transition of the phase change material AIST and its impact on crystallization. <i>Materials Science in Semiconductor Processing</i> , 2021, 134, 105990.	1.9	10
33	Materials Screening for Disorder-Controlled Chalcogenide Crystals for Phase-Change Memory Applications. <i>Advanced Materials</i> , 2021, 33, e2006221.	11.1	32
34	Retarding Ostwald ripening through Gibbs adsorption and interfacial complexions leads to high-performance SnTe thermoelectrics. <i>Energy and Environmental Science</i> , 2021, 14, 5469-5479.	15.6	67
35	Far-Infrared Near-Field Optical Imaging and Kelvin Probe Force Microscopy of Laser-Crystallized and -Amorphized Phase Change Material Ge <sub>3</sub> Sb <sub>2</sub> Te <sub>6</sub> . <i>Nano Letters</i> , 2021, 21, 9012-9020.	4.5	12
36	Surface Polariton-Like Polarized Waveguide Modes in Switchable Dielectric Thin Films on Polar Crystals. <i>Advanced Optical Materials</i> , 2020, 8, 1901056.	3.6	16

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37	Chalcogenide Thermoelectrics Empowered by an Unconventional Bonding Mechanism. <i>Advanced Functional Materials</i> , 2020, 30, 1904862.	7.8	148
38	Revealing nano-chemistry at lattice defects in thermoelectric materials using atom probe tomography. <i>Materials Today</i> , 2020, 32, 260-274.	8.3	73
39	Disordering process of GeSb <sub>2</sub> Te <sub>4</sub> induced by ion irradiation. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 134001.	1.3	1
40	Control of effective cooling rate upon magnetron sputter deposition of glassy Ge <sub>15</sub> Te <sub>85</sub> . <i>Scripta Materialia</i> , 2020, 178, 223-226.	2.6	12
41	Investigating Bond Rupture in Resonantly Bonded Solids by Field Evaporation of Carbon Nanotubes. <i>Nano Letters</i> , 2020, 20, 116-121.	4.5	15
42	Cu Intercalation and Br Doping to Thermoelectric SnSe <sub>2</sub> Lead to Ultrahigh Electron Mobility and Temperature-Independent Power Factor. <i>Advanced Functional Materials</i> , 2020, 30, 1908405.	7.8	53
43	Lead Chalcogenides: Discovering Electron-Transfer-Driven Changes in Chemical Bonding in Lead Chalcogenides (PbX, where X = Te, Se, S, O) ( <i>Adv. Mater.</i> 49/2020). <i>Advanced Materials</i> , 2020, 32, 2070370.	11.1	1
44	Exceptionally High Average Power Factor and Thermoelectric Figure of Merit in n-type PbSe by the Dual Incorporation of Cu and Te. <i>Journal of the American Chemical Society</i> , 2020, 142, 15172-15186.	6.6	72
45	Discovering Electron-Transfer-Driven Changes in Chemical Bonding in Lead Chalcogenides (PbX, where) <i>Tj ETQq1 1 0.784314 rgBT</i>	11.1	56
46	Huygens' Metasurfaces: All-Dielectric Programmable Huygens' Metasurfaces ( <i>Adv. Funct. Mater.</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	7.8	3
47	Violation of the Stokes-Einstein relation in Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> , GeTe, Ag <sub>4</sub> In <sub>3</sub> Sb <sub>6</sub> Te <sub>26</sub> , and Ge <sub>15</sub> Sb <sub>85</sub> , and its connection to fast crystallization. <i>Acta Materialia</i> , 2020, 195, 491-500.	3.8	19
48	Changes of Structure and Bonding with Thickness in Chalcogenide Thin Films. <i>Advanced Materials</i> , 2020, 32, e2001033.	11.1	19
49	Chalcogenides by Design: Functionality through Metavalent Bonding and Confinement. <i>Advanced Materials</i> , 2020, 32, e1908302.	11.1	179
50	The interplay between Peierls distortions and metavalent bonding in IV-VI compounds: comparing GeTe with related monochalcogenides. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 234002.	1.3	43
51	All-Dielectric Programmable Huygens' Metasurfaces. <i>Advanced Functional Materials</i> , 2020, 30, 1910259.	7.8	149
52	Employing Interfaces with Metavalently Bonded Materials for Phonon Scattering and Control of the Thermal Conductivity in TAGS Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1910039.	7.8	35
53	In situ study of vacancy disordering in crystalline phase-change materials under electron beam irradiation. <i>Acta Materialia</i> , 2020, 187, 103-111.	3.8	27
54	Uncovering $\beta$ -relaxations in amorphous phase-change materials. <i>Science Advances</i> , 2020, 6, eaay6726.	4.7	33

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55	Direct atomic insight into the role of dopants in phase-change materials. Nature Communications, 2019, 10, 3525.	5.8	56
56	Switching between Crystallization from the Glassy and the Undercooled Liquid Phase in Phase Change Material Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> . Advanced Materials, 2019, 31, e1900784.	11.1	64
57	Layered Switching Mechanisms in Sb <sub>2</sub> Te <sub>3</sub> . Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900320.	1.2	20
58	Impact of Bonding on the Stacking Defects in Layered Chalcogenides. Advanced Functional Materials, 2019, 29, 1902332.	7.8	21
59	Understanding the Structure and Properties of Sesqui-Chalcogenides (i.e.,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (V)	11.1	98
60	Phase-change materials: Empowered by an unconventional bonding mechanism. MRS Bulletin, 2019, 44, 699-704.	1.7	15
61	Metallic filamentary conduction in valence change-based resistive switching devices: the case of TaO <sub>x</sub> thin film with $x \approx \frac{1}{4}$ . Nanoscale, 2019, 11, 16978-16990.	2.8	16
62	Polariton nanophotonics using phase-change materials. Nature Communications, 2019, 10, 4487.	5.8	106
63	Advanced Optical Programming of Individual Meta-Atoms Beyond the Effective Medium Approach. Advanced Materials, 2019, 31, e1901033.	11.1	47
64	Quantification of Carrier Density Gradients along Axially Doped Silicon Nanowires Using Infrared Nanoscopy. ACS Photonics, 2019, 6, 1744-1754.	3.2	25
65	Femtosecond x-ray diffraction reveals a liquid-liquid phase transition in phase-change materials. Science, 2019, 364, 1062-1067.	6.0	120
66	Mg Deficiency in Grain Boundaries of n-Type Mg <sub>3</sub> Sb <sub>2</sub> Identified by Atom Probe Tomography. Advanced Materials Interfaces, 2019, 6, 1900429.	1.9	44
67	Phase Change Materials and Superlattices for Non-Volatile Memories. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900130.	1.2	23
68	Highly Confined and Switchable Mid-Infrared Surface Phonon Polariton Resonances of Planar Circular Cavities with a Phase Change Material. Nano Letters, 2019, 19, 2549-2554.	4.5	43
69	Stoichiometry Determination of Chalcogenide Superlattices by Means of X-Ray Diffraction and its Limits. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800577.	1.2	9
70	Role of grain boundaries in Ge-Sb-Te based chalcogenide superlattices. Journal of Physics Condensed Matter, 2019, 31, 204002.	0.7	11
71	Exploring ultrafast threshold switching in In <sub>3</sub> SbTe <sub>2</sub> phase change memory devices. Scientific Reports, 2019, 9, 19251.	1.6	28
72	Persistence of spin memory in a crystalline, insulating phase-change material. Npj Quantum Materials, 2019, 4, .	1.8	13

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73	A Quantum-Mechanical Map for Bonding and Properties in Solids. <i>Advanced Materials</i> , 2019, 31, e1806280.	11.1	206
74	Disorder Control in Crystalline GeSb <sub>2</sub> Te <sub>4</sub> and its Impact on Characteristic Length Scales. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800578.	1.2	8
75	Designing crystallization in phase-change materials for universal memory and neuro-inspired computing. <i>Nature Reviews Materials</i> , 2019, 4, 150-168.	23.3	572
76	Metal-like conductivity in undoped TiO <sub>2-x</sub> : Understanding an unconventional transparent conducting oxide. <i>Thin Solid Films</i> , 2019, 669, 1-7.	0.8	10
77	Investigation of the phase change mechanism of Ge <sub>6</sub> Sn <sub>2</sub> Sb <sub>2</sub> Te <sub>11</sub> . <i>Acta Materialia</i> , 2018, 152, 278-287.	3.8	15
78	Unique Bond Breaking in Crystalline Phase Change Materials and the Quest for Metavalent Bonding. <i>Advanced Materials</i> , 2018, 30, e1706735.	11.1	175
79	Evidence of Enhanced Carrier Collection in Cu(In,Ga)Se <sub>2</sub> Grain Boundaries: Correlation with Microstructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 14759-14766.	4.0	26
80	2D or Not 2D: Strain Tuning in Weakly Coupled Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1705901.	7.8	49
81	Ag-Segregation to Dislocations in PbTe-Based Thermoelectric Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 3609-3615.	4.0	74
82	Unconventional two-dimensional germanium dichalcogenides. <i>Nanoscale</i> , 2018, 10, 7363-7368.	2.8	26
83	Probing hyperbolic polaritons using infrared attenuated total reflectance micro-spectroscopy. <i>MRS Communications</i> , 2018, 8, 1418-1425.	0.8	17
84	Sb <sub>2</sub> Te <sub>3</sub> Growth Study Reveals That Formation of Nanoscale Charge Carrier Domains Is an Intrinsic Feature Relevant for Electronic Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 6834-6842.	2.4	11
85	Surface Modifications by Self-Assembled Monolayers to Improve Organic Opto-Electronic Devices. , 2018, , 835-841.		1
86	Vibrational Properties of Ge-Sb-Te Phase-Change Alloys Studied by Temperature-Dependent IR and Raman Spectroscopy. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2018, , 377-379.	0.2	0
87	Atomic disordering processes in crystalline GeTe induced by ion irradiation. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 495103.	1.3	5
88	Vibrational Properties of Ge-Sb-Te Phase-Change Alloys Studied by IR and Raman Spectroscopy at Different Temperatures. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2018, , 441-441.	0.2	0
89	Tailoring Thermoelectric Transport Properties of Ag-Alloyed PbTe: Effects of Microstructure Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38994-39001.	4.0	17
90	Incipient Metals: Functional Materials with a Unique Bonding Mechanism. <i>Advanced Materials</i> , 2018, 30, e1803777.	11.1	255

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91	High-Performance n-Type PbSe <sub>2</sub> Cu <sub>2</sub> Se Thermoelectrics through Conduction Band Engineering and Phonon Softening. <i>Journal of the American Chemical Society</i> , 2018, 140, 15535-15545.	6.6	103
92	Correlation between the transport mechanisms in conductive filaments inside Ta <sub>2</sub> O <sub>5</sub> -based resistive switching devices and in substoichiometric TaO <sub>x</sub> thin films. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	19
93	Thermoelectric Performance of IV <sup>VI</sup> Compounds with Octahedral <sup>VI</sup> Like Coordination: A Chemical <sup>B</sup> Bonding Perspective. <i>Advanced Materials</i> , 2018, 30, e1801787.	11.1	78
94	Genesis and Effects of Swapping Bilayers in Hexagonal GeSb <sub>2</sub> Te <sub>4</sub> . <i>Chemistry of Materials</i> , 2018, 30, 4770-4777.	3.2	36
95	Controlled Crystal Growth of Indium Selenide, In <sub>2</sub> Se <sub>3</sub> , and the Crystal Structures of In <sub>2</sub> Se <sub>3</sub> . <i>Inorganic Chemistry</i> , 2018, 57, 11775-11781.	1.9	97
96	Indium <sup>Ti</sup> Oxide (ITO) Work Function Tailoring by Covalently Bound Carboxylic Acid Self <sup>Assembled</sup> Monolayers. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1800075.	0.7	18
97	Phase formation and stability in TiO <sub>x</sub> and ZrO <sub>x</sub> thin films: Extremely sub-stoichiometric functional oxides for electrical and TCO applications. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 161-183.	0.4	4
98	Unerwartete Ge <sup>Ge</sup> Kontakte in der zweidimensionalen Phase Ge <sub>4</sub> Se <sub>3</sub> Te und Analyse ihres chemischen Ursprungs mittels Energiedichte(DOE) <sup>Funktion</sup> . <i>Angewandte Chemie</i> , 2017, 129, 10338-10342.	1.6	2
99	Unexpected Ge <sup>Ge</sup> Contacts in the Two <sup>D</sup> Dimensional Ge <sub>4</sub> Se <sub>3</sub> Te Phase and Analysis of Their Chemical Cause with the Density of Energy (DOE) Function. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10204-10208.	7.2	64
100	Simultaneous optimization of electrical and thermal transport properties of Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> thermoelectric alloy by twin boundary engineering. <i>Nano Energy</i> , 2017, 37, 203-213.	8.2	164
101	Enhanced temperature stability and exceptionally high electrical contrast of selenium substituted Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> phase change materials. <i>RSC Advances</i> , 2017, 7, 17164-17172.	1.7	26
102	Role of Nanostructuring and Microstructuring in Silver Antimony Telluride Compounds for Thermoelectric Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14779-14790.	4.0	28
103	Dielectric properties of amorphous phase-change materials. <i>Physical Review B</i> , 2017, 95, .	1.1	41
104	Impact of Pressure on the Resonant Bonding in Chalcogenides. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25447-25454.	1.5	25
105	Investigating the Influence of Resonant Bonding on the Optical Properties of Phase Change Materials (GeTe) <sub>x</sub> SnSb <sub>2</sub> Se <sub>4</sub> . <i>Chemistry of Materials</i> , 2017, 29, 9320-9327.	3.2	18
106	Design Parameters for Phase <sup>Change</sup> Materials for Nanostructure Resonance Tuning. <i>Advanced Optical Materials</i> , 2017, 5, 1700261.	3.6	55
107	Chemical Tuning of Carrier Type and Concentration in a Homologous Series of Crystalline Chalcogenides. <i>Chemistry of Materials</i> , 2017, 29, 6749-6757.	3.2	18
108	Innenr <sup>4</sup> titelbild: Unerwartete Ge <sup>Ge</sup> Kontakte in der zweidimensionalen Phase Ge <sub>4</sub> Se <sub>3</sub> Te und Analyse ihres chemischen Ursprungs mittels Energiedichte(DOE) <sup>Funktion</sup> ( <i>Angew. Chem.</i> 34/2017). <i>Angewandte Chemie</i> , 2017, 129, 10381-10381.	1.6	0

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109	Beam switching and bifocal zoom lensing using active plasmonic metasurfaces. <i>Light: Science and Applications</i> , 2017, 6, e17016-e17016.	7.7	313
110	Phase-change materials for non-volatile photonic applications. <i>Nature Photonics</i> , 2017, 11, 465-476.	15.6	917
111	Formation of resonant bonding during growth of ultrathin GeTe films. <i>NPG Asia Materials</i> , 2017, 9, e396-e396.	3.8	25
112	A Review on Disorder-Driven Metal-Insulator Transition in Crystalline Vacancy-Rich GeSbTe Phase-Change Materials. <i>Materials</i> , 2017, 10, 862.	1.3	54
113	Strain Development and Damage Accumulation Under Ion Irradiation of Polycrystalline Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Alloys. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 1095-1101.	0.4	4
114	Phase Change Data Storage: New Materials. <i>Journal of Materials Research</i> , 2017, 31, 3115-3124.		0
115	Carbon-Based Resistive Memories. <i>Journal of Materials Research</i> , 2016, 31, 3115-3124.		6
116	Element-resolved atomic structure imaging of rocksalt Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> phase-change material. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	89
117	Atomic stacking and van-der-Waals bonding in GeTe <sub>2</sub> Sb <sub>3</sub> superlattices. <i>Journal of Materials Research</i> , 2016, 31, 3115-3124.	1.2	53
118	Reversible optical switching of highly confined phonon-polaritons with an ultrathin phase-change material. <i>Nature Materials</i> , 2016, 15, 870-875.	13.3	330
119	Picosecond Electric-Field-Induced Threshold Switching in Phase-Change Materials. <i>Physical Review Letters</i> , 2016, 117, 067601.	2.9	59
120	Dithiocarbamate Self-Assembled Monolayers as Efficient Surface Modifiers for Low Work Function Noble Metals. <i>Langmuir</i> , 2016, 32, 8812-8817.	1.6	13
121	Interband characterization and electronic transport control of nanoscaled GeTe <sub>2</sub> Sb <sub>3</sub> superlattices. <i>Physical Review B</i> , 2016, 94, .		
122	Ordered Peierls distortion prevented at growth onset of GeTe ultra-thin films. <i>Scientific Reports</i> , 2016, 6, 32895.	1.6	20
123	Revisiting the Local Structure in Ge-Sb-Te based Chalcogenide Superlattices. <i>Scientific Reports</i> , 2016, 6, 22353.	1.6	63
124	Density-functional theory guided advances in phase-change materials and memories. <i>MRS Bulletin</i> , 2015, 40, 856-869.	1.7	57
125	Disorder-Induced Localization in Crystalline Pseudo-Binary GeTe <sub>2</sub> Sb <sub>3</sub> Alloys between Ge <sub>3</sub> Sb <sub>2</sub> Te <sub>6</sub> and GeTe. <i>Advanced Functional Materials</i> , 2015, 25, 6399-6406.	7.8	58
126	Low-Temperature Transport in Crystalline Ge <sub>1</sub> Sb <sub>2</sub> Te <sub>4</sub> . <i>Advanced Functional Materials</i> , 2015, 25, 6390-6398.	7.8	42



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127	Relation between bandgap and resistance drift in amorphous phase change materials. Scientific Reports, 2015, 5, 17362.	1.6	45
128	Imaging of phase change materials below a capping layer using correlative infrared near-field microscopy and electron microscopy. Applied Physics Letters, 2015, 107, .	1.5	18
129	Effects of stoichiometry on the transport properties of crystalline phase-change materials. Scientific Reports, 2015, 5, 13496.	1.6	30
130	A Switchable Mid-Infrared Plasmonic Perfect Absorber with Multispectral Thermal Imaging Capability. Advanced Materials, 2015, 27, 4597-4603.	11.1	487
131	Resistively Switching Chalcogenides. Advanced Functional Materials, 2015, 25, 6285-6286.	7.8	11
132	Microscopic Complexity in Phase-Change Materials and its Role for Applications. Advanced Functional Materials, 2015, 25, 6343-6359.	7.8	78
133	Reversing the Resistivity Contrast in the Phase-Change Memory Material GeSb <sub>2</sub> Te <sub>4</sub> Using High Pressure. Advanced Electronic Materials, 2015, 1, 1500240.	2.6	19
134	Active Chiral Plasmonics. Nano Letters, 2015, 15, 4255-4260.	4.5	271
135	Disorder Control in Crystalline GeSb <sub>2</sub> Te <sub>4</sub> Using High Pressure. Advanced Science, 2015, 2, 1500117.	5.6	36
136	Impact of vacancy ordering on thermal transport in crystalline phase-change materials. Reports on Progress in Physics, 2015, 78, 013001.	8.1	84
137	Understanding the conductive channel evolution in Na:WO <sub>3</sub> -based planar devices. Nanoscale, 2015, 7, 6023-6030.	2.8	15
138	How Supercooled Liquid Phase-Change Materials Crystallize: Snapshots after Femtosecond Optical Excitation. Chemistry of Materials, 2015, 27, 5641-5646.	3.2	44
139	Vibrational properties and bonding nature of Sb <sub>2</sub> Se <sub>3</sub> and their implications for chalcogenide materials. Chemical Science, 2015, 6, 5255-5262.	3.7	89
140	Aging mechanisms in amorphous phase-change materials. Nature Communications, 2015, 6, 7467.	5.8	212
141	Phase-Change and Redox-Based Resistive Switching Memories. Proceedings of the IEEE, 2015, 103, 1274-1288.	16.4	142
142	Plasmonic Absorbers: A Switchable Mid-Infrared Plasmonic Perfect Absorber with Multispectral Thermal Imaging Capability (Adv. Mater. 31/2015). Advanced Materials, 2015, 27, 4526-4526.	11.1	7
143	A chemical link between GeSbTe and InSbTe phase-change materials. Journal of Materials Chemistry C, 2015, 3, 9519-9523.	2.7	44
144	Incident Angle-Tuning of Infrared Antenna Array Resonances for Molecular Sensing. ACS Photonics, 2015, 2, 1498-1504.	3.2	48

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