G. Jeffrey Snyder

List of Publications by Year
in descending order

595 papers	74,018 citations	613 124 h-index	677 254 g-index
639 all docs	639 docs citations	639 times ranked	22269 citing authors

#	Article	IF	Citations
1	Thermoelectric transport effects beyond single parabolic band and acoustic phonon scattering. Materials Advances, 2022, 3, 734-755.	2.6	21
2	Estimating the lower-limit of fracture toughness from ideal-strength calculations. Materials Horizons, 2022, 9, 825-834.	6.4	4
3	Tuning valley degeneracy with band inversion. Journal of Materials Chemistry A, 2022, 10, 1588-1595.	5.2	6
4	Conduction band engineering of half-Heusler thermoelectrics using orbital chemistry. Journal of Materials Chemistry A, 2022, 10, 3051-3057.	5.2	25
5	Printing thermoelectric inks toward next-generation energy and thermal devices. Chemical Society Reviews, 2022, 51, 485-512.	18.7	39
6	Key properties of inorganic thermoelectric materialsâ€"tables (version 1). JPhys Energy, 2022, 4, 022002.	2.3	51
7	Understanding the High Thermoelectric Performance of Mg₃Sb₂â€Mg₃Bi₂ Alloys. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	31
8	Effective Mass from Seebeck Coefficient. Advanced Functional Materials, 2022, 32, .	7.8	37
9	Effect of texturing on thermal, electric and elastic properties of MoAlB, Fe2AlB2, and Mn2AlB2. Journal of the European Ceramic Society, 2022, 42, 3183-3191.	2.8	18
10	The Importance of Avoided Crossings in Understanding High Valley Degeneracy in Halfâ€Heusler Thermoelectric Semiconductors. Advanced Electronic Materials, 2022, 8, .	2.6	11
11	Durable, stretchable and washable inorganic-based woven thermoelectric textiles for power generation and solid-state cooling. Energy and Environmental Science, 2022, 15, 2374-2385.	15.6	51
12	When power factor supersedes <i>zT</i> to determine power in a thermocouple. Journal of Applied Physics, 2022, 131, 115101.	1.1	1
13	Hidden Local Symmetry Breaking in Silver Diamondoid Compounds is Root Cause of Ultralow Thermal Conductivity. Advanced Materials, 2022, 34, e2202255.	11.1	20
14	Considering the Role of Ion Transport in Diffusonâ€Dominated Thermal Conductivity. Advanced Energy Materials, 2022, 12, .	10.2	27
15	Inherent Anharmonicity of Harmonic Solids. Research, 2022, 2022, .	2.8	7
16	High Thermoelectric Performance in Chalcopyrite Cu_{1â€"<i>x</i>}Ag_{<i>x</i>}GaTe₂â€"ZnTe: Nontrivial Band Structure and Dynamic Doping Effect. Journal of the American Chemical Society, 2022, 144, 9113-9125.	6.6	29
17	Ag rearrangement induced metal-insulator phase transition in thermoelectric MgAgSb. Materials Today Physics, 2022, 25, 100702.	2.9	0
18	Chemical Interpretation of Charged Point Defects in Semiconductors: A Case Study of Mg₂Si. ChemNanoMat, 2022, 8, .	1.5	2

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19	Mapping Thermoelectric Transport in a Multicomponent Alloy Space. Advanced Electronic Materials, 2022, 8, .	2.6	4
20	Thermoelectric properties and low thermal conductivity of Zintl compound Yb₁₀MnSb₉. Journal of Materials Chemistry A, 2022, 10, 15127-15135.	5.2	6
21	Mode- and space-resolved thermal transport of alloy nanostructures. International Journal of Heat and Mass Transfer, 2022, 195, 123191.	2.5	3
22	Creep behavior and post-creep thermoelectric performance of the n-type Skutterudite alloy Yb0.3Co4Sb12. Journal of Materiomics, 2021, 7, 89-97.	2.8	9
23	Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb₂. Advanced Materials, 2021, 33, e2003168.	11.1	34
24	Compositional Fluctuations Locked by Athermal Transformation Yielding High Thermoelectric Performance in GeTe. Advanced Materials, 2021, 33, e2005612.	11.1	52
25	Enhanced thermoelectric performance in Mg_{3+x}Sb_{1.5}Bi_{0.49}Te_{0.01}<i>via</i> engineering microstructure through melt-centrifugation. Journal of Materials Chemistry A, 2021, 9, 1733-1742.	5.2	20
26	Intrinsic carrier multiplication in layered Bi2O2Se avalanche photodiodes with gain bandwidth product exceeding 1 GHz. Nano Research, 2021, 14, 1961-1966.	5.8	17
27	Synthesis and physical properties of single-crystalline InTe: towards high thermoelectric performance. Journal of Materials Chemistry C, 2021, 9, 5250-5260.	2.7	18
28	Temperature-Dependent Band Renormalization in CoSb₃ Skutterudites Due to Sb-Ring-Related Vibrations. Chemistry of Materials, 2021, 33, 1046-1052.	3.2	16
29	Thermoelectric Materials: Compositional Fluctuations Locked by Athermal Transformation Yielding High Thermoelectric Performance in GeTe (Adv. Mater. 1/2021). Advanced Materials, 2021, 33, 2170008.	11.1	6
30	Using phase boundary mapping to resolve discrepancies in the Mg₂Siâ€"Mg₂Sn miscibility gap. Journal of Materials Chemistry A, 2021, 9, 7208-7215.	5.2	11
31	Orbital chemistry of high valence band convergence and low-dimensional topology in PbTe. Journal of Materials Chemistry A, 2021, 9, 12119-12139.	5.2	15
32	Defect chemistry and doping of BiCuSeO. Journal of Materials Chemistry A, 2021, 9, 20685-20694.	5.2	23
33	Discovery of multivalley Fermi surface responsible for the high thermoelectric performance in Yb ₁₄ MnSb ₁₁ and Yb ₁₄ MgSb ₁₁. Science Advances, 2021, 7, .	4.7	34
34	Thermoelectric Materials: Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb₂ (Adv. Mater. 7/2021). Advanced Materials, 2021, 33, 2170051.	11.1	1
35	Possibility of interstitial Na as electron donor in Yb14MgSb11. MRS Communications, 2021, 11, 226-232.	0.8	4
36	Significant Enhancement of Thermoelectric Figure of Merit in BiSbTeâ€Based Composites by Incorporating Carbon Microfiber. Advanced Functional Materials, 2021, 31, 2008851.	7.8	57

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37	Probing the phonon mean free paths in dislocation core by molecular dynamics simulation. Journal of Applied Physics, 2021, 129, .	1.1	9
38	Phase-Transition-Enhanced Thermoelectric Transport in Rickardite Mineral Cu_{3â€“<i>x</i>}Te₂. Chemistry of Materials, 2021, 33, 1832-1841.	3.2	9
39	Thermoelectric Performance Enhancement in BiSbTe Alloy by Microstructure Modulation via Cyclic Spark Plasma Sintering with Liquid Phase. Advanced Functional Materials, 2021, 31, 2009681.	7.8	84
40	Parallel Dislocation Networks and Cottrell Atmospheres Reduce Thermal Conductivity of PbTe Thermoelectrics. Advanced Functional Materials, 2021, 31, 2101214.	7.8	41
41	Phase Boundary Mapping of Tinâ€Doped ZnSb Reveals Thermodynamic Route to High Thermoelectric Efficiency. Advanced Energy Materials, 2021, 11, 2100181.	10.2	17
42	Fracture toughness of thermoelectric materials. Materials Science and Engineering Reports, 2021, 144, 100607.	14.8	39
43	Distributed and localized cooling with thermoelectrics. Joule, 2021, 5, 748-751.	11.7	34
44	Ultralow Thermal Conductivity in Diamondoid Structures and High Thermoelectric Performance in (Cu_{1â€“<i>x</i>}Ag_{<i>x</i>})(In_{1â€“<i>y</i>}Ga_{<i>y</i>})Te₂. Journal of the American Chemical Society, 2021, 143, 5978-5989.	6.2	49
45	Quantifying charge carrier localization in chemically doped semiconducting polymers. Nature Materials, 2021, 20, 1414-1421.	13.3	61
46	Nbâ€Mediated Grain Growth and Grainâ€Boundary Engineering in Mg₃Sb₂â€Based Thermoelectric Materials. Advanced Functional Materials, 2021, 31, 2100258.	7.8	53
47	Uncovering design principles for amorphous-like heat conduction using two-channel lattice dynamics. Materials Today Physics, 2021, 18, 100344.	2.9	42
48	Charge-carrier-mediated lattice softening contributes to high zT in thermoelectric semiconductors. Joule, 2021, 5, 1168-1182.	11.7	37
49	Thermal Evolution of Internal Strain in Doped PbTe. Chemistry of Materials, 2021, 33, 4765-4772.	3.2	11
50	When band convergence is not beneficial for thermoelectrics. Nature Communications, 2021, 12, 3425.	5.8	51
51	Physical insights on the low lattice thermal conductivity of AgInSe2. Materials Today Physics, 2021, 19, 100428.	2.9	20
52	First principles investigation of intrinsic and Na defects in XTe (X=Ca, Sr, Ba) nanostructured PbTe. Materials Today Physics, 2021, 19, 100415.	2.9	6
53	High thermoelectric performance enabled by convergence of nested conduction bands in Pb7Bi4Se13 with low thermal conductivity. Nature Communications, 2021, 12, 4793.	5.8	53
54	Regulating Te Vacancies through Dopant Balancing via Excess Ag Enables Rebounding Power Factor and High Thermoelectric Performance in pâ€Type PbTe. Advanced Science, 2021, 8, e2100895.	5.6	18

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55	Dopant-segregation to grain boundaries controls electrical conductivity of n-type NbCo(Pt)Sn half-Heusler alloy mediating thermoelectric performance. Acta Materialia, 2021, 217, 117147.	3.8	24
56	Dislocations Stabilized by Point Defects Increase Brittleness in PbTe. Advanced Functional Materials, 2021, 31, 2108006.	7.8	25
57	Disorder-induced Anderson-like localization for bidimensional thermoelectrics optimization. Matter, 2021, 4, 2970-2984.	5.0	15
58	Thermal transport in defective and disordered materials. Applied Physics Reviews, 2021, 8, .	5.5	45
59	What makes a material bendable? A thickness-dependent metric for bendability, malleability, ductility. Matter, 2021, 4, 2694-2696.	5.0	11
60	Role of interfaces in organicâ€“inorganic flexible thermoelectrics. Nano Energy, 2021, 89, 106380.	8.2	30
61	The effect of Mg₃As₂ alloying on the thermoelectric properties of n-type Mg₃(Sb, Bi)₂. Dalton Transactions, 2021, 50, 9376-9382.	1.6	7
62	Visualizing defect energetics. Materials Horizons, 2021, 8, 1966-1975.	6.4	8
63	Phonon scattering in the complex strain field of a dislocation in PbTe. Journal of Materials Chemistry C, 2021, 9, 8506-8514.	2.7	7
64	Retarding Ostwald ripening through Gibbs adsorption and interfacial complexions leads to high-performance SnTe thermoelectrics. Energy and Environmental Science, 2021, 14, 5469-5479.	15.6	67
65	Stress/pressure-stabilized cubic polymorph of Li₃Sb with improved thermoelectric performance. Journal of Materials Chemistry A, 2021, 9, 25024-25031.	5.2	4
66	Finding the order in complexity: The electronic structure of 14-1-11 zintl compounds. Applied Physics Letters, 2021, 119, .	1.5	6
67	Iterative design of a high <i>zT</i> thermoelectric material. Applied Physics Letters, 2021, 119, .	1.5	4
68	Band Engineering SnTe via Trivalent Substitutions for Enhanced Thermoelectric Performance. Chemistry of Materials, 2021, 33, 9624-9637.	3.2	17
69	Revealing the Intrinsic Electronic Structure of 3D Halfâ€Heusler Thermoelectric Materials by Angleâ€Resolved Photoemission Spectroscopy. Advanced Science, 2020, 7, 1902409.	5.6	49
70	The importance of the Mgâ€“Mg interaction in Mg₃Sb₂â€“Mg₃Bi₂ shown through cation site alloying. Journal of Materials Chemistry A, 2020, 8, 2033-2038.	5.2	33
71	Origin of inhomogeneity in spark plasma sintered bismuth antimony telluride thermoelectric nanocomposites. Nano Research, 2020, 13, 1339-1346.	5.8	4
72	Revealing nano-chemistry at lattice defects in thermoelectric materials using atom probe tomography. Materials Today, 2020, 32, 260-274.	8.3	73

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73	Prediction of improved thermoelectric performance by ordering in double half-Heusler materials. Journal of Materials Chemistry A, 2020, 8, 23590-23598.	5.2	29
74	Expression of interfacial Seebeck coefficient through grain boundary engineering with multi-layer graphene nanoplatelets. Energy and Environmental Science, 2020, 13, 4114-4121.	15.6	78
75	Optimum load resistance for a thermoelectric generator system. Energy Conversion and Management, 2020, 226, 113490.	4.4	23
76	Thermoelectric transport of semiconductor full-Heusler VFe₂Al. Journal of Materials Chemistry C, 2020, 8, 10174-10184.	2.7	34
77	Unveiling the phonon scattering mechanisms in half-Heusler thermoelectric compounds. Energy and Environmental Science, 2020, 13, 5165-5176.	15.6	49
78	Crystal Structure and Atomic Vacancy Optimized Thermoelectric Properties in Gadolinium Selenides. Chemistry of Materials, 2020, 32, 10130-10139.	3.2	36
79	Electronic quality factor for thermoelectrics. Science Advances, 2020, 6, .	4.7	88
80	Orbital Chemistry That Leads to High Valley Degeneracy in PbTe. Chemistry of Materials, 2020, 32, 9771-9779.	3.2	30
81	Na Doping in PbTe: Solubility, Band Convergence, Phase Boundary Mapping, and Thermoelectric Properties. Journal of the American Chemical Society, 2020, 142, 15464-15475.	6.6	101
82	Discovery of high-performance thermoelectric copper chalcogenide using modified diffusion-couple high-throughput synthesis and automated histogram analysis technique. Energy and Environmental Science, 2020, 13, 3041-3053.	15.6	43
83	Mg₃(Bi,Sb)₂ single crystals towards high thermoelectric performance. Energy and Environmental Science, 2020, 13, 1717-1724.	15.6	91
84	On the Dopability of Semiconductors and Governing Material Properties. Chemistry of Materials, 2020, 32, 4467-4480.	3.2	34
85	Vibrational Entropy Stabilizes Distorted Half-Heusler Structures. Chemistry of Materials, 2020, 32, 4767-4773.	3.2	13
86	Weighted Mobility. Advanced Materials, 2020, 32, e2001537.	11.1	439
87	Hallâ€effect Measurements and Transport Properties of Heterostructures in the Model System NiTe 2 â€Sn 12 Sb 2 Te 15. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1345-1351.	0.6	0
88	High-performance p-type elemental Te thermoelectric materials enabled by the synergy of carrier tuning and phonon engineering. Journal of Materials Chemistry A, 2020, 8, 12156-12168.	5.2	12
89	Analytical Models of Phononâ€“Point-Defect Scattering. Physical Review Applied, 2020, 13, .	1.5	55
90	Contrasting SnTeâ€“NaSbTe₂ and SnTeâ€“NaBiTe₂ Thermoelectric Alloys: High Performance Facilitated by Increased Cation Vacancies and Lattice Softening. Journal of the American Chemical Society, 2020, 142, 12524-12535.	6.6	51

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91	Systematic over-estimation of lattice thermal conductivity in materials with electrically-resistive grain boundaries. Energy and Environmental Science, 2020, 13, 1250-1258.	15.6	48
92	Metallic nâ€Type Mg₃Sb₂ Single Crystals Demonstrate the Absence of Ionized Impurity Scattering and Enhanced Thermoelectric Performance. Advanced Materials, 2020, 32, e1908218.	11.1	116
93	Stretchable fabric generates electric power from woven thermoelectric fibers. Nature Communications, 2020, 11, 572.	5.8	212
94	Band Sharpening and Band Alignment Enable High Quality Factor to Enhance Thermoelectric Performance in <i>n</i>-Type PbS. Journal of the American Chemical Society, 2020, 142, 4051-4060.	6.6	130
95	Thermoelectric transport enhancement of Te-rich bismuth antimony telluride (Bi0.5Sb1.5Te3+x) through controlled porosity. Journal of Materiomics, 2020, 6, 532-544.	2.8	36
96	Understanding the thermally activated charge transport in NaPb_mSbQ_{m+2} (Q) Tj ETQq0 0 0 rgBT /Overlock 1 carrier scattering. Energy and Environmental Science, 2020, 13, 1509-1518.	15.6	63
97	Alloy scattering of phonons. Materials Horizons, 2020, 7, 1452-1456.	6.4	39
98	All-Inorganic Halide Perovskites as Potential Thermoelectric Materials: Dynamic Cation off-Centering Induces Ultralow Thermal Conductivity. Journal of the American Chemical Society, 2020, 142, 9553-9563.	6.6	155
99	Thermal studies of individual Si/Ge heterojunctions â€" The influence of the alloy layer on the heterojunction. Journal of Materiomics, 2020, 6, 248-255.	2.8	11
100	Graphene/Strontium Titanate: Approaching Single Crystalâ€"Like Charge Transport in Polycrystalline Oxide Perovskite Nanocomposites through Grain Boundary Engineering. Advanced Functional Materials, 2020, 30, 1910079.	7.8	37
101	The Thermoelectric Properties of n-Type Bismuth Telluride: Bismuth Selenide Alloys Bi2Te3â^'xSex. Research, 2020, 2020, 4361703.	2.8	61
102	Violation of the <i>T</i> ^{â^'1} Relationship in the Lattice Thermal Conductivity of Mg ₃ Sb ₂ with Locally Asymmetric Vibrations. Research, 2020, 2020, 4589786.	2.8	25
103	Machine Learning Chemical Guidelines for Engineering Electronic Structures in Half-Heusler Thermoelectric Materials. Research, 2020, 2020, 6375171.	2.8	32
104	Realization of higher thermoelectric performance by dynamic doping of copper in n-type PbTe. Energy and Environmental Science, 2019, 12, 3089-3098.	15.6	127
105	Ultralow Thermal Conductivity and High-Temperature Thermoelectric Performance in n-Type K_{2.5}Bi_{8.5}Se₁₄. Chemistry of Materials, 2019, 31, 5943-5952.	3.2	25
106	High-Efficiency and Stable Thermoelectric Module Based on Liquid-Like Materials. Joule, 2019, 3, 1538-1548.	11.7	126
107	Density, distribution and nature of planar faults in silver antimony telluride for thermoelectric applications. Acta Materialia, 2019, 178, 135-145.	3.8	13
108	High Thermoelectric Performance in PbSeâ€"NaSbSe₂ Alloys from Valence Band Convergence and Low Thermal Conductivity. Advanced Energy Materials, 2019, 9, 1901377.	10.2	54

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109	Phase Transformation Contributions to Heat Capacity and Impact on Thermal Diffusivity, Thermal Conductivity, and Thermoelectric Performance. Advanced Materials, 2019, 31, e1902980.	11.1	47
110	Conventional sintered Cu2-Se thermoelectric material. Journal of Materiomics, 2019, 5, 626-633.	2.8	14
111	Improvement of Lowâ€Temperature <i>zT</i> in a Mg₃Sb₂â€“Mg₃Bi₂ Solid Solution via Mgâ€Vapor Annealing. Advanced Materials, 2019, 31, e1902337.	11.1	150
112	A figure of merit for flexibility. Science, 2019, 366, 690-691.	6.0	97
113	Cobalt germanide precipitates indirectly improve the properties of thermoelectric germanium antimony tellurides. Journal of Materials Chemistry C, 2019, 7, 11419-11430.	2.7	4
114	Synergistically Optimizing Carrier Concentration and Decreasing Sound Velocity in n-type AgInSe₂ Thermoelectrics. Chemistry of Materials, 2019, 31, 8182-8190.	3.2	23
115	Creep behavior and postcreep thermoelectric performance of the n-type half-Heusler alloy Hf0.3Zr0.7NiSn0.98Sb0.02. Materials Today Physics, 2019, 9, 100134.	2.9	20
116	Synergistic modulation of mobility and thermal conductivity in (Bi,Sb)₂Te₃ towards high thermoelectric performance. Energy and Environmental Science, 2019, 12, 624-630.	15.6	120
117	Origins of ultralow thermal conductivity in 1-2-1-4 quaternary selenides. Journal of Materials Chemistry A, 2019, 7, 2589-2596.	5.2	28
118	Titanium-based thin film metallic glass as diffusion barrier layer for PbTe-based thermoelectric modules. APL Materials, 2019, 7, .	2.2	12
119	Interfaces in energy materials. APL Materials, 2019, 7, .	2.2	1
120	Grain Boundary Engineering Nanostructured SrTiO₃ for Thermoelectric Applications. Advanced Materials Interfaces, 2019, 6, 1900222.	1.9	52
121	Double Half-Heuslers. Joule, 2019, 3, 1226-1238.	11.7	103
122	Mg Deficiency in Grain Boundaries of nâ€Type Mg₃Sb₂ Identified by Atom Probe Tomography. Advanced Materials Interfaces, 2019, 6, 1900429.	1.9	44
123	Microstructure and composition engineering Yb single-filled CoSb3 for high thermoelectric and mechanical performances. Journal of Materiomics, 2019, 5, 702-710.	2.8	23
124	Short-range order in defective half-Heusler thermoelectric crystals. Energy and Environmental Science, 2019, 12, 1568-1574.	15.6	86
125	Achieving band convergence by tuning the bonding ionicity in nâ€type Mg₃Sb₂. Journal of Computational Chemistry, 2019, 40, 1693-1700.	1.5	68
126	Amphoteric Indium Enables Carrier Engineering to Enhance the Power Factor and Thermoelectric Performance in <i>n</i>â€Type Ag<i>_n</i>Pb₁₀₀In<i>_n</i>Te₁₀₀₊₂<i>_n</i> (LIST). Advanced Energy Materials, 2019, 9, 1900414.	10.2	60

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127	Dramatically reduced lattice thermal conductivity of Mg2Si thermoelectric material from nanotwinning. Acta Materialia, 2019, 169, 9-14.	3.8	30
128	Thermal conductivity of complex materials. National Science Review, 2019, 6, 380-381.	4.6	33
129	Lattice Softening Significantly Reduces Thermal Conductivity and Leads to High Thermoelectric Efficiency. Advanced Materials, 2019, 31, e1900108.	11.1	171
130	The importance of phase equilibrium for doping efficiency: iodine doped PbTe. Materials Horizons, 2019, 6, 1444-1453.	6.4	42
131	The Thermoelectric Properties of Bismuth Telluride. Advanced Electronic Materials, 2019, 5, 1800904.	2.6	446
132	Exceptional thermoelectric performance in Mg₃Sb_{0.6}Bi_{1.4} for low-grade waste heat recovery. Energy and Environmental Science, 2019, 12, 965-971.	15.6	177
133	Effect of anion substitution on the structural and transport properties of argyrodites Cu₇PSe_{6â^'x}S_x. Dalton Transactions, 2019, 48, 15822-15829.	1.6	17
134	3D extruded composite thermoelectric threads for flexible energy harvesting. Nature Communications, 2019, 10, 5590.	5.8	56
135	Effect of Twoâ€Dimensional Crystal Orbitals on Fermi Surfaces and Electron Transport in Threeâ€Dimensional Perovskite Oxides. Angewandte Chemie, 2019, 131, 5557-5566.	1.6	8
136	Effect of Twoâ€Dimensional Crystal Orbitals on Fermi Surfaces and Electron Transport in Threeâ€Dimensional Perovskite Oxides. Angewandte Chemie - International Edition, 2019, 58, 5503-5512.	7.2	17
137	The Vacancyâ€Induced Electronic Structure of the SrTiO 3â^'Î´ Surface. Advanced Electronic Materials, 2019, 5, 1800460.	2.6	15
138	A Percolation Model for Piezoresistivity in Conductorâ€"Polymer Composites. Advanced Theory and Simulations, 2019, 2, 1800125.	1.3	16
139	Mechanical properties in thermoelectric oxides: Ideal strength, deformation mechanism, and fracture toughness. Acta Materialia, 2018, 149, 341-349.	3.8	25
140	Resonant Bonding, Multiband Thermoelectric Transport, and Native Defects in n-Type BaBiTe3â€"xSex (x =) Tj ETQq0 0 0 rgBT /Overlock	3.2	13
141	Observation of valence band crossing: the thermoelectric properties of CaZn₂Sb₂â€"CaMg₂Sb₂ solid solution. Journal of Materials Chemistry A, 2018, 6, 9437-9444.	5.2	70
142	High Thermoelectric Performance in SnTeâ€"AgSbTe₂ Alloys from Lattice Softening, Giant Phononâ€"Vacancy Scattering, and Valence Band Convergence. ACS Energy Letters, 2018, 3, 705-712.	8.8	151
143	Polycrystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ZrTe</mml:mi></mml:mrow><mml:mrow><mml:mn>5</mml:mn> Parametrized as a Narrow-Band-Gap Semiconductor for Thermoelectric Performance. Physical Review Applied, 2018, 9, .	1.5	26
144	Minimum thermal conductivity in the context of <i>diffuson</i>-mediated thermal transport. Energy and Environmental Science, 2018, 11, 609-616.	15.6	221

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145	Quaternary Pavonites A_{1+<i>x</i>}Sn_{2â€"<i>x</i>}Bi_{5+<i>x</i>}S₁₀ (A⁺ = Li⁺, Na⁺): Site Occupancy Disorder Defines Electronic Structure. Inorganic Chemistry, 2018, 57, 2260-2268.	1.9	12
146	Grain Boundaries Softening Thermoelectric Oxide BiCuSeO. ACS Applied Materials & Interfaces, 2018, 10, 6772-6777.	4.0	10
147	Grain boundary dominated charge transport in Mg₃Sb₂-based compounds. Energy and Environmental Science, 2018, 11, 429-434.	15.6	253
148	Improving the thermoelectric performance in Mg3+<i>x</i>Sb1.5Bi0.49Te0.01 by reducing excess Mg. APL Materials, 2018, 6, .	2.2	51
149	Manipulating Band Structure through Reconstruction of Binary Metal Sulfide for Highâ€Performance Thermoelectrics in Solutionâ€Synthesized Nanostructured Bi₁₃S₁₈I₂. Angewandte Chemie - International Edition, 2018, 57, 2413-2418.	7.2	20
150	Enhancement of average thermoelectric figure of merit by increasing the grain-size of Mg3.2Sb1.5Bi0.49Te0.01. Applied Physics Letters, 2018, 112, .	1.5	126
151	Impact of Ni content on the thermoelectric properties of half-Heusler TiNiSn. Energy and Environmental Science, 2018, 11, 311-320.	15.6	97
152	Assessing the Thermal Conductivity of Cu2â^'xSe Alloys Undergoing a Phase Transition via the Simultaneous Measurement of Thermoelectric Parameters by a Harman-Based Setup. Journal of Electronic Materials, 2018, 47, 3314-3319.	1.0	14
153	Enhanced Thermoelectric Performance in 18â€Electron Nb_{0.8}CoSb Halfâ€Heusler Compound with Intrinsic Nb Vacancies. Advanced Functional Materials, 2018, 28, 1705845.	7.8	124
154	Ultralow Thermal Conductivity in Diamond-Like Semiconductors: Selective Scattering of Phonons from Antisite Defects. Chemistry of Materials, 2018, 30, 3395-3409.	3.2	28
155	Boosting the thermoelectric performance of PbSe through dynamic doping and hierarchical phonon scattering. Energy and Environmental Science, 2018, 11, 1848-1858.	15.6	163
156	Low-Symmetry Rhombohedral GeTe Thermoelectrics. Joule, 2018, 2, 976-987.	11.7	402
157	A valence balanced rule for discovery of 18-electron half-Heuslers with defects. Energy and Environmental Science, 2018, 11, 1480-1488.	15.6	105
158	Simple and efficient synthesis of nanograin structured single phase filled skutterudite for high thermoelectric performance. Acta Materialia, 2018, 142, 8-17.	3.8	44
159	Unique Role of Refractory Ta Alloying in Enhancing the Figure of Merit of NbFeSb Thermoelectric Materials. Advanced Energy Materials, 2018, 8, 1701313.	10.2	181
160	Band engineering in Mg₃Sb₂ by alloying with Mg₃Bi₂ for enhanced thermoelectric performance. Materials Horizons, 2018, 5, 59-64.	6.4	177
161	Phase Boundary Mapping to Obtain n-type Mg3Sb2-Based Thermoelectrics. Joule, 2018, 2, 141-154.	11.7	274
162	First-principles calculations and experimental studies of <i>XYZ</i>₂ thermoelectric compounds: detailed analysis of van der Waals interactions. Journal of Materials Chemistry A, 2018, 6, 19502-19519.	5.2	20

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163	Chalcopyrite ZnSnSb₂: A Promising Thermoelectric Material. ACS Applied Materials & Interfaces, 2018, 10, 43682-43690.	4.0	22
164	Phonon diffraction and dimensionality crossover in phonon-interface scattering. Communications Physics, 2018, 1, .	2.0	28
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