

G. Jeffrey Snyder

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7858174/publications.pdf>

Version: 2024-02-01

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	Complex thermoelectric materials. <i>Nature Materials</i> , 2008, 7, 105-114.	13.3	9,012
2	Enhancement of Thermoelectric Efficiency in PbTe by Distortion of the Electronic Density of States. <i>Science</i> , 2008, 321, 554-557.	6.0	3,442
3	Convergence of electronic bands for high performance bulk thermoelectrics. <i>Nature</i> , 2011, 473, 66-69.	13.7	3,306
4	Copper ion liquid-like thermoelectrics. <i>Nature Materials</i> , 2012, 11, 422-425.	13.3	1,700
5	Ultrahigh power factor and thermoelectric performance in hole-doped single-crystal SnSe. <i>Science</i> , 2016, 351, 141-144.	6.0	1,594
6	Dense dislocation arrays embedded in grain boundaries for high-performance bulk thermoelectrics. <i>Science</i> , 2015, 348, 109-114.	6.0	1,552
7	Band Engineering of Thermoelectric Materials. <i>Advanced Materials</i> , 2012, 24, 6125-6135.	11.1	1,307
8	Characterization of Lorenz number with Seebeck coefficient measurement. <i>APL Materials</i> , 2015, 3, .	2.2	1,236
9	Compromise and Synergy in High Efficiency Thermoelectric Materials. <i>Advanced Materials</i> , 2017, 29, 1605884.	11.1	1,098
10	Yb ₁₄ MnSb ₁₁ : New High Efficiency Thermoelectric Material for Power Generation. <i>Chemistry of Materials</i> , 2006, 18, 1873-1877.	3.2	793
11	Disordered zinc in Zn ₄ Sb ₃ with phonon-glass and electron-crystal thermoelectric properties. <i>Nature Materials</i> , 2004, 3, 458-463.	13.3	787
12	Phonon engineering through crystal chemistry. <i>Journal of Materials Chemistry</i> , 2011, 21, 15843.	6.7	719
13	Thinking Like a Chemist: Intuition in Thermoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6826-6841.	7.2	639
14	Intrinsic electrical transport and magnetic properties of La _{0.67} Ca _{0.33} MnO ₃ and La _{0.67} Sr _{0.33} MnO ₃ MOCVD thin films and bulk material. <i>Physical Review B</i> , 1996, 53, 14434-14444.	1.1	634
15	High thermoelectric figure of merit in heavy hole dominated PbTe. <i>Energy and Environmental Science</i> , 2011, 4, 2085.	15.6	631
16	High Thermoelectric Performance in Non-Toxic Earth-Abundant Copper Sulfide. <i>Advanced Materials</i> , 2014, 26, 3974-3978.	11.1	631
17	Flexible n-type thermoelectric materials by organic intercalation of layered transition metal dichalcogenide TiS ₂ . <i>Nature Materials</i> , 2015, 14, 622-627.	13.3	612
18	Convergence of multi-valley bands as the electronic origin of high thermoelectric performance in CoSb ₃ skutterudites. <i>Nature Materials</i> , 2015, 14, 1223-1228.	13.3	587

#	ARTICLE	IF	CITATIONS
19	Zintl Chemistry for Designing High Efficiency Thermoelectric Materials. Chemistry of Materials, 2010, 22, 624-634.	3.2	560
20	Low effective mass leading to high thermoelectric performance. Energy and Environmental Science, 2012, 5, 7963.	15.6	511
21	Thermoelectric Efficiency and Compatibility. Physical Review Letters, 2003, 91, 148301.	2.9	488
22	Zintl phases for thermoelectric devices. Dalton Transactions, 2007, , 2099.	1.6	488
23	Thermoelectric properties of p-type polycrystalline SnSe doped with Ag. Journal of Materials Chemistry A, 2014, 2, 11171-11176.	5.2	488
24	High Thermoelectric Performance in PbTe Due to Large Nanoscale Ag ₂ Te Precipitates and La Doping. Advanced Functional Materials, 2011, 21, 241-249.	7.8	484
25	Heavily Doped p-type PbSe with High Thermoelectric Performance: An Alternative for PbTe. Advanced Materials, 2011, 23, 1366-1370.	11.1	461
26	Matminer: An open source toolkit for materials data mining. Computational Materials Science, 2018, 152, 60-69.	1.4	446
27	The Thermoelectric Properties of Bismuth Telluride. Advanced Electronic Materials, 2019, 5, 1800904.	2.6	446
28	Lead telluride alloy thermoelectrics. Materials Today, 2011, 14, 526-532.	8.3	444
29	Weighted Mobility. Advanced Materials, 2020, 32, e2001537.	11.1	439
30	Thermoelectric microdevice fabricated by a MEMS-like electrochemical process. Nature Materials, 2003, 2, 528-531.	13.3	428
31	Charge-transport model for conducting polymers. Nature Materials, 2017, 16, 252-257.	13.3	412
32	Low-Symmetry Rhombohedral GeTe Thermoelectrics. Joule, 2018, 2, 976-987.	11.7	402
33	Zintl Phases as Thermoelectric Materials: Tuned Transport Properties of the Compounds CaxYb1-xZn2Sb2. Advanced Functional Materials, 2005, 15, 1860-1864.	7.8	379
34	Stabilizing the Optimal Carrier Concentration for High Thermoelectric Efficiency. Advanced Materials, 2011, 23, 5674-5678.	11.1	378
35	Lattice Dislocations Enhancing Thermoelectric PbTe in Addition to Band Convergence. Advanced Materials, 2017, 29, 1606768.	11.1	365
36	Characterization and analysis of thermoelectric transport in $\text{Ba}_{1-x}\text{Bi}_x\text{Sb}_2$. Physical Review B, 2009, 80, .	1.1	364

#	ARTICLE	IF	CITATIONS
37	Vacancy-induced dislocations within grains for high-performance PbSe thermoelectrics. <i>Nature Communications</i> , 2017, 8, 13828.	5.8	360
38	Reevaluation of PbTe as high performance n-type thermoelectric material. <i>Energy and Environmental Science</i> , 2011, 4, 2090.	15.6	359
39	Weak electron-phonon coupling contributing to high thermoelectric performance in n-type PbSe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9705-9709.	3.3	359
40	Beneficial Contribution of Alloy Disorder to Electron and Phonon Transport in Half-Heusler Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2013, 23, 5123-5130.	7.8	349
41	Optimum Carrier Concentration in n-Type PbTe Thermoelectrics. <i>Advanced Energy Materials</i> , 2014, 4, 1400486.	10.2	348
42	Interfaces in bulk thermoelectric materials. <i>Current Opinion in Colloid and Interface Science</i> , 2009, 14, 226-235.	3.4	340
43	Engineering half-Heusler thermoelectric materials using Zintl chemistry. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	340
44	Chalcopyrite CuGaTe_2 : A High-Efficiency Bulk Thermoelectric Material. <i>Advanced Materials</i> , 2012, 24, 3622-3626.	11.1	311
45	Mechanically Robust BiSbTe Alloys with Superior Thermoelectric Performance: A Case Study of Stable Hierarchical Nanostructured Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2015, 5, 1401391.	10.2	304
46	n-Type Bi_2Te_3 - Se_x Nanoplates with Enhanced Thermoelectric Efficiency Driven by Wide-Frequency Phonon Scatterings and Synergistic Carrier Scatterings. <i>ACS Nano</i> , 2016, 10, 4719-4727.	7.3	303
47	Figure of merit ZT of a thermoelectric device defined from materials properties. <i>Energy and Environmental Science</i> , 2017, 10, 2280-2283.	15.6	300
48	Distinct Impact of Alkali-Ion Doping on Electrical Transport Properties of Thermoelectric p-Type Polycrystalline SnSe. <i>Journal of the American Chemical Society</i> , 2016, 138, 8875-8882.	6.6	298
49	Ultrahigh thermoelectric performance in Cu_2Se -based hybrid materials with highly dispersed molecular CNTs. <i>Energy and Environmental Science</i> , 2017, 10, 1928-1935.	15.6	298
50	Traversing the Metal-Insulator Transition in a Zintl Phase: Rational Enhancement of Thermoelectric Efficiency in $\text{Yb}_{14}\text{Mn}_{11}\text{Al}_x\text{Sb}_{11}$. <i>Advanced Functional Materials</i> , 2008, 18, 2795-2800.	7.8	294
51	The Criteria for Beneficial Disorder in Thermoelectric Solid Solutions. <i>Advanced Functional Materials</i> , 2013, 23, 1586-1596.	7.8	293
52	Anomalous Spin Scattering Effects in the Badly Metallic Itinerant Ferromagnet SrRuO_3 . <i>Physical Review Letters</i> , 1996, 77, 2774-2777.	2.9	278
53	Measuring thermoelectric transport properties of materials. <i>Energy and Environmental Science</i> , 2015, 8, 423-435.	15.6	275
54	Phase Boundary Mapping to Obtain n-type Mg_3Sb_2 -Based Thermoelectrics. <i>Joule</i> , 2018, 2, 141-154.	11.7	274

#	ARTICLE	IF	CITATIONS
55	High Band Degeneracy Contributes to High Thermoelectric Performance in p-Type Half-Heusler Compounds. <i>Advanced Energy Materials</i> , 2014, 4, 1400600.	10.2	261
56	A high temperature apparatus for measurement of the Seebeck coefficient. <i>Review of Scientific Instruments</i> , 2011, 82, 063905.	0.6	255
57	Thermodynamics of Thermoelectric Phenomena and Applications. <i>Entropy</i> , 2011, 13, 1481-1517.	1.1	254
58	Grain boundary dominated charge transport in Mg ₃ Sb ₂ -based compounds. <i>Energy and Environmental Science</i> , 2018, 11, 429-434.	15.6	253
59	Skutterudite with graphene-modified grain-boundary complexion enhances zT enabling high-efficiency thermoelectric device. <i>Energy and Environmental Science</i> , 2017, 10, 183-191.	15.6	252
60	High Thermoelectric Figure of Merit in PbTe Alloys Demonstrated in PbTe-CdTe. <i>Advanced Energy Materials</i> , 2012, 2, 670-675.	10.2	240
61	Application of the compatibility factor to the design of segmented and cascaded thermoelectric generators. <i>Applied Physics Letters</i> , 2004, 84, 2436-2438.	1.5	230
62	Optimization of thermoelectric efficiency in SnTe: the case for the light band. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20741-20748.	1.3	230
63	Concentrated solar thermoelectric generators. <i>Energy and Environmental Science</i> , 2012, 5, 9055.	15.6	227
64	Thermoelectric performance of lanthanum telluride produced via mechanical alloying. <i>Physical Review B</i> , 2008, 78, .	1.1	224
65	Self-Tuning the Carrier Concentration of PbTe/Ag ₂ Te Composites with Excess Ag for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2011, 1, 291-296.	10.2	224
66	Measurement of the electrical resistivity and Hall coefficient at high temperatures. <i>Review of Scientific Instruments</i> , 2012, 83, 123902.	0.6	223
67	A practical field guide to thermoelectrics: Fundamentals, synthesis, and characterization. <i>Applied Physics Reviews</i> , 2018, 5, 021303.	5.5	223
68	Minimum thermal conductivity in the context of <i>diffuson</i> -mediated thermal transport. <i>Energy and Environmental Science</i> , 2018, 11, 609-616.	15.6	221
69	Low Electron Scattering Potentials in High Performance Mg ₂ Si _{0.45} Sn _{0.55} Based Thermoelectric Solid Solutions with Band Convergence. <i>Advanced Energy Materials</i> , 2013, 3, 1238-1244.	10.2	220
70	Thermopower enhancement in Pb _{1-x} Mn _x Te alloys and its effect on thermoelectric efficiency. <i>NPG Asia Materials</i> , 2012, 4, e28-e28.	3.8	214
71	Tuning bands of PbSe for better thermoelectric efficiency. <i>Energy and Environmental Science</i> , 2014, 7, 804-811.	15.6	214
72	The intrinsic disorder related alloy scattering in ZrNiSn half-Heusler thermoelectric materials. <i>Scientific Reports</i> , 2014, 4, 6888.	1.6	213

#	ARTICLE	IF	CITATIONS
73	Stretchable fabric generates electric power from woven thermoelectric fibers. <i>Nature Communications</i> , 2020, 11, 572.	5.8	212
74	Compliant and stretchable thermoelectric coils for energy harvesting in miniature flexible devices. <i>Science Advances</i> , 2018, 4, eaau5849.	4.7	208
75	Mechanochemical synthesis and thermoelectric properties of high quality magnesium silicide. <i>Journal of Materials Chemistry</i> , 2011, 21, 12259.	6.7	204
76	Ca_3AlSb_3 : an inexpensive, non-toxic thermoelectric material for waste heat recovery. <i>Energy and Environmental Science</i> , 2011, 4, 510-518.	15.6	202
77	$\text{Cu}_2\text{ZnGeSe}_4$ Nanocrystals: Synthesis and Thermoelectric Properties. <i>Journal of the American Chemical Society</i> , 2012, 134, 4060-4063.	6.6	199
78	Ultra-high Thermoelectric Performance in Mosaic Crystals. <i>Advanced Materials</i> , 2015, 27, 3639-3644.	11.1	195
79	Understanding thermoelectric properties from high-throughput calculations: trends, insights, and comparisons with experiment. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4414-4426.	2.7	193
80	High Thermoelectric Performance $\text{SnTe-In}_2\text{Te}_3$ Solid Solutions Enabled by Resonant Levels and Strong Vacancy Phonon Scattering. <i>Chemistry of Materials</i> , 2015, 27, 7801-7811.	3.2	191
81	Optical band gap and the Burstein-Moss effect in iodine doped PbTe using diffuse reflectance infrared Fourier transform spectroscopy. <i>New Journal of Physics</i> , 2013, 15, 075020.	1.2	188
82	Electronic structure and transport in thermoelectric compounds AZn_2Sb_2 (A = Sr, Ca, Yb, Eu). <i>Dalton Transactions</i> , 2010, 39, 1046-1054.	1.6	184
83	Band gap estimation from temperature dependent Seebeck measurement—Deviations from the $ 2e S _{\text{max}}T_{\text{max}}$ relation. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	181
84	Unique Role of Refractory Ta Alloying in Enhancing the Figure of Merit of NbFeSb Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1701313.	10.2	181
85	The Zintl Compound $\text{Ca}_5\text{Al}_2\text{Sb}_6$ for Low-Cost Thermoelectric Power Generation. <i>Advanced Functional Materials</i> , 2010, 20, 4375-4380.	7.8	180
86	Enhanced Thermoelectric Performance through Tuning Bonding Energy in $\text{Cu}_2\text{Se}_1\text{S}_x$ Liquid-like Materials. <i>Chemistry of Materials</i> , 2017, 29, 6367-6377.	3.2	179
87	High Thermoelectric Efficiency of n-type PbS. <i>Advanced Energy Materials</i> , 2013, 3, 488-495.	10.2	178
88	Band engineering in Mg_3Sb_2 by alloying with Mg_3Bi_2 for enhanced thermoelectric performance. <i>Materials Horizons</i> , 2018, 5, 59-64.	6.4	177
89	Exceptional thermoelectric performance in $\text{Mg}_3\text{Sb}_{0.6}\text{Bi}_{1.4}$ for low-grade waste heat recovery. <i>Energy and Environmental Science</i> , 2019, 12, 965-971.	15.6	177
90	High thermoelectric and mechanical performance in highly dense Cu_2S bulks prepared by a melt-solidification technique. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9432-9437.	5.2	176

#	ARTICLE	IF	CITATIONS
91	Lattice Softening Significantly Reduces Thermal Conductivity and Leads to High Thermoelectric Efficiency. <i>Advanced Materials</i> , 2019, 31, e1900108.	11.1	171
92	Interstitial Zn Atoms Do the Trick in Thermoelectric Zinc Antimonide, Zn ₄ Sb ₃ : A Combined Maximum Entropy Method X-ray Electron Density and Ab Initio Electronic Structure Study. <i>Chemistry - A European Journal</i> , 2004, 10, 3861-3870.	1.7	169
93	Elemental tellurium as a chiral $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -type thermoelectric material. <i>Physical Review B</i> , 2014, 89, .	1.1	165
94	Boosting the thermoelectric performance of PbSe through dynamic doping and hierarchical phonon scattering. <i>Energy and Environmental Science</i> , 2018, 11, 1848-1858.	15.6	163
95	Annealable Curie temperature and transport of La _{0.67} Ca _{0.33} MnO ₃ . <i>Journal of Applied Physics</i> , 1996, 80, 5158-5161.	1.1	160
96	High-temperature electrical and thermal transport properties of fully filled skutterudites RFe ₄ Sb ₁₂ (R = Ca, Sr, Ba, La, Ce, Pr, Nd, Eu, and Yb). <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	156
97	All-Inorganic Halide Perovskites as Potential Thermoelectric Materials: Dynamic Cation off-Centering Induces Ultralow Thermal Conductivity. <i>Journal of the American Chemical Society</i> , 2020, 142, 9553-9563.	6.6	155
98	Thermoelectric Transport in Cu ₇ PSe ₆ with High Copper Ionic Mobility. <i>Journal of the American Chemical Society</i> , 2014, 136, 12035-12040.	6.6	154
99	Combination of large nanostructures and complex band structure for high performance thermoelectric lead telluride. <i>Energy and Environmental Science</i> , 2011, 4, 3640.	15.6	153
100	High thermoelectric performance in (Bi _{0.25} Sb _{0.75}) ₂ Te ₃ due to band convergence and improved by carrier concentration control. <i>Materials Today</i> , 2017, 20, 452-459.	8.3	151
101	High Thermoelectric Performance in SnTe-AgSbTe ₂ Alloys from Lattice Softening, Giant Phonon Vacancy Scattering, and Valence Band Convergence. <i>ACS Energy Letters</i> , 2018, 3, 705-712.	8.8	151
102	Thermoelectric properties and microstructure of Mg ₃ Sb ₂ . <i>Journal of Solid State Chemistry</i> , 2006, 179, 2252-2257.	1.4	150
103	Improvement of Low-Temperature $\langle i \rangle zT \langle /i \rangle$ in a Mg ₃ Sb ₂ -Mg ₃ Bi ₂ Solid Solution via Mg Vapor Annealing. <i>Advanced Materials</i> , 2019, 31, e1902337.	11.1	150
104	Alloying to increase the band gap for improving thermoelectric properties of Ag ₂ Te. <i>Journal of Materials Chemistry</i> , 2011, 21, 18256.	6.7	149
105	Suppression of atom motion and metal deposition in mixed ionic electronic conductors. <i>Nature Communications</i> , 2018, 9, 2910.	5.8	148
106	Direct Electrodeposition of Highly Dense 50 nm Bi ₂ Te ₃ -ySey Nanowire Arrays. <i>Nano Letters</i> , 2003, 3, 973-977.	4.5	146
107	An ab initio electronic transport database for inorganic materials. <i>Scientific Data</i> , 2017, 4, 170085.	2.4	146
108	Effective mass and Fermi surface complexity factor from ab initio band structure calculations. <i>Npj Computational Materials</i> , 2017, 3, .	3.5	145

#	ARTICLE	IF	CITATIONS
109	Self-Assembled Nanometer Lamellae of Thermoelectric PbTe and Sb ₂ Te ₃ with Epitaxy-like Interfaces. Chemistry of Materials, 2007, 19, 763-767.	3.2	143
110	Complex thermoelectric materials. , 2010, , 101-110.		143
111	Solubility design leading to high figure of merit in low-cost Ce-CoSb ₃ skutterudites. Nature Communications, 2015, 6, 7584.	5.8	142
112	Temperature dependent band gap in PbX (X = S, Se, Te). Applied Physics Letters, 2013, 103, .	1.5	140
113	Composition and the thermoelectric performance of $\hat{\Gamma}^2$ -Zn ₄ Sb ₃ . Journal of Materials Chemistry, 2010, 20, 9877.	6.7	139
114	Chemical Stability of (Ag,Cu) ₂ Se: a Historical Overview. Journal of Electronic Materials, 2013, 42, 2014-2019.	1.0	139
115	High temperature thermoelectric efficiency in $Ba_{1-x}Ga_x$. Physical Review B, 2008, 77, .	1.1	138
116	Local structure, transport, and rare-earth magnetism in the ferrimagnetic perovskite Gd _{0.67} Ca _{0.33} MnO ₃ s. Physical Review B, 1997, 55, 6453-6459.	1.1	137
117	Demonstration of a phonon-glass electron-crystal strategy in (Hf,Zr)NiSn half-Heusler thermoelectric materials by alloying. Journal of Materials Chemistry A, 2015, 3, 22716-22722.	5.2	137
118	Discovery of High-Performance Thermoelectric Chalcogenides through Reliable High-Throughput Material Screening. Journal of the American Chemical Society, 2018, 140, 10785-10793.	6.6	134
119	Optimization principles and the figure of merit for triboelectric generators. Science Advances, 2017, 3, eaap8576.	4.7	133
120	Melt-Centrifuged (Bi,Sb) ₂ Te ₃ : Engineering Microstructure toward High Thermoelectric Efficiency. Advanced Materials, 2018, 30, e1802016.	11.1	133
121	Supercooling of Peltier cooler using a current pulse. Journal of Applied Physics, 2002, 92, 1564-1569.	1.1	132
122	Improved Thermoelectric Performance in Yb ₁₄ Mn ₁₇ Zn ₁₁ Sb ₁₁ by the Reduction of Spin-Disorder Scattering. Chemistry of Materials, 2008, 20, 3412-3419.	3.2	132
123	Realizing high-performance thermoelectric power generation through grain boundary engineering of skutterudite-based nanocomposites. Nano Energy, 2017, 41, 501-510.	8.2	130
124	Band Sharpening and Band Alignment Enable High Quality Factor to Enhance Thermoelectric Performance in n-Type PbS. Journal of the American Chemical Society, 2020, 142, 4051-4060.	6.6	130
125	Influence of band structure on the large thermoelectric performance of lanthanum telluride. Physical Review B, 2009, 79, .	1.1	129
126	Influence of a Nano Phase Segregation on the Thermoelectric Properties of the p-Type Doped Stannite Compound Cu ₂ Zn ₁₆ GeSe ₄ . Journal of the American Chemical Society, 2012, 134, 7147-7154.	6.6	129

#	ARTICLE	IF	CITATIONS
127	Achieving $zT > 1$ in Inexpensive Zintl Phase $\text{Ca}_{9-x}\text{Zn}_{4+x}\text{Sb}_9$ by Phase Boundary Mapping. <i>Advanced Functional Materials</i> , 2017, 27, 1606361.	7.8	129
128	Thermoelectric properties of Sr_3GaSb_3 – a chain-forming Zintl compound. <i>Energy and Environmental Science</i> , 2012, 5, 9121.	15.6	127
129	Realization of higher thermoelectric performance by dynamic doping of copper in n-type PbTe. <i>Energy and Environmental Science</i> , 2019, 12, 3089-3098.	15.6	127
130	Rapid Microwave Preparation of Thermoelectric TiNiSn and TiCoSb Half-Heusler Compounds. <i>Chemistry of Materials</i> , 2012, 24, 2558-2565.	3.2	126
131	Enhancement of average thermoelectric figure of merit by increasing the grain-size of $\text{Mg}_{3.2}\text{Sb}_{1.5}\text{Bi}_{0.49}\text{Te}_{0.01}$. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	126
132	High-Efficiency and Stable Thermoelectric Module Based on Liquid-Like Materials. <i>Joule</i> , 2019, 3, 1538-1548.	11.7	126
133	Enhanced Thermoelectric Performance in 18 \AA -Electron $\text{Nb}_{0.8}\text{CoSb}$ Half-Heusler Compound with Intrinsic Nb Vacancies. <i>Advanced Functional Materials</i> , 2018, 28, 1705845.	7.8	124
134	Synergistic modulation of mobility and thermal conductivity in $(\text{Bi,Sb})_2\text{Te}_3$ towards high thermoelectric performance. <i>Energy and Environmental Science</i> , 2019, 12, 624-630.	15.6	120
135	Transient cooling of thermoelectric coolers and its applications for microdevices. <i>Energy Conversion and Management</i> , 2005, 46, 1407-1421.	4.4	119
136	Enhanced Thermoelectric Properties in Bulk Nanowire Heterostructure-Based Nanocomposites through Minority Carrier Blocking. <i>Nano Letters</i> , 2015, 15, 1349-1355.	4.5	118
137	Small Thermoelectric Generators. <i>Electrochemical Society Interface</i> , 2008, 17, 54-56.	0.3	117
138	Phase diagram of In-Co-Sb system and thermoelectric properties of In-containing skutterudites. <i>Energy and Environmental Science</i> , 2014, 7, 812-819.	15.6	116
139	Metallic n-type Mg_3Sb_2 Single Crystals Demonstrate the Absence of Ionized Impurity Scattering and Enhanced Thermoelectric Performance. <i>Advanced Materials</i> , 2020, 32, e1908218.	11.1	116
140	Rapid consolidation of powdered materials by induction hot pressing. <i>Review of Scientific Instruments</i> , 2011, 82, 025104.	0.6	115
141	Highly Porous Thermoelectric Nanocomposites with Low Thermal Conductivity and High Figure of Merit from Large-Scale Solution-Synthesized $\text{Bi}_2\text{Te}_{2.5}\text{Se}_{0.5}$ Hollow Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3546-3551.	7.2	114
142	Defect-Controlled Electronic Properties in AZn_2Sb_2 Zintl Phases. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3422-3426.	7.2	112
143	Thermoelectric properties of Sn-doped p-type Cu_3SbSe_4 : a compound with large effective mass and small band gap. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13527-13533.	5.2	112
144	High thermoelectric efficiency in lanthanum doped $\text{Yb}_{14}\text{MnSb}_{11}$. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	111

#	ARTICLE	IF	CITATIONS
145	Phase transition enhanced thermoelectric figure-of-merit in copper chalcogenides. <i>APL Materials</i> , 2013, 1, .	2.2	109
146	Glass-like lattice thermal conductivity and high thermoelectric efficiency in $\text{Yb}_9\text{Mn}_{4.2}\text{Sb}_9$. <i>Journal of Materials Chemistry A</i> , 2014, 2, 215-220.	5.2	109
147	Charge-Compensated Compound Defects in Ga-containing Thermoelectric Skutterudites. <i>Advanced Functional Materials</i> , 2013, 23, 3194-3203.	7.8	108
148	Dislocation strain as the mechanism of phonon scattering at grain boundaries. <i>Materials Horizons</i> , 2016, 3, 234-240.	6.4	108
149	Evaluating the potential for high thermoelectric efficiency of silver selenide. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7568.	2.7	105
150	A valence balanced rule for discovery of 18-electron half-Heuslers with defects. <i>Energy and Environmental Science</i> , 2018, 11, 1480-1488.	15.6	105
151	Surfactant-Free Synthesis of Bi_2Te_3 -Te Micro-Nano Heterostructure with Enhanced Thermoelectric Figure of Merit. <i>ACS Nano</i> , 2011, 5, 3158-3165.	7.3	104
152	Thermoelectric transport properties of diamond-like $\text{Cu}_1-x\text{Fe}_x\text{S}_2$ tetrahedral compounds. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	104
153	Significant enhancement of figure-of-merit in carbon-reinforced Cu_2Se nanocrystalline solids. <i>Nano Energy</i> , 2017, 41, 164-171.	8.2	103
154	Double Half-Heuslers. <i>Joule</i> , 2019, 3, 1226-1238.	11.7	103
155	Na Doping in PbTe : Solubility, Band Convergence, Phase Boundary Mapping, and Thermoelectric Properties. <i>Journal of the American Chemical Society</i> , 2020, 142, 15464-15475.	6.6	101
156	Phonon Scattering through a Local Anisotropic Structural Disorder in the Thermoelectric Solid Solution $\text{Cu}_2\text{Zn}_4\text{FeGe}_4$. <i>Journal of the American Chemical Society</i> , 2013, 135, 726-732.	6.6	100
157	Computational and experimental investigation of TmAgTe_2 and XYZ_2 compounds, a new group of thermoelectric materials identified by first-principles high-throughput screening. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10554-10565.	2.7	99
158	Resolving the true band gap of ZrNiSn half-Heusler thermoelectric materials. <i>Materials Horizons</i> , 2015, 2, 68-75.	6.4	99
159	Impact of Ni content on the thermoelectric properties of half-Heusler TiNiSn . <i>Energy and Environmental Science</i> , 2018, 11, 311-320.	15.6	97
160	A figure of merit for flexibility. <i>Science</i> , 2019, 366, 690-691.	6.0	97
161	Effect of Isovalent Substitution on the Thermoelectric Properties of the $\text{Cu}_2\text{ZnGeSe}_4$ - S Series of Solid Solutions. <i>Journal of the American Chemical Society</i> , 2014, 136, 442-448.	6.6	95
162	Nonstoichiometry in the Zintl Phase $\text{Yb}_{1-x}\text{Zn}_2\text{Sb}_2$ as a Route to Thermoelectric Optimization. <i>Chemistry of Materials</i> , 2014, 26, 5710-5717.	3.2	95

#	ARTICLE	IF	CITATIONS
163	Enhancing the thermoelectric performance of $\text{SnSe}_{1-x}\text{Te}_x$ nanoplates through band engineering. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10713-10721.	5.2	94
164	Using the 18-Electron Rule To Understand the Nominal 19-Electron Half-Heusler NbCoSb with Nb Vacancies. <i>Chemistry of Materials</i> , 2017, 29, 1210-1217.	3.2	93
165	Enhanced stability and thermoelectric figure-of-merit in copper selenide by lithium doping. <i>Materials Today Physics</i> , 2017, 1, 7-13.	2.9	93
166	Structure, Heat Capacity, and High-Temperature Thermal Properties of $\text{Yb}_{14}\text{Mn}_x\text{Al}_x\text{Sb}_{11}$. <i>Chemistry of Materials</i> , 2009, 21, 1354-1360.	3.2	92
167	$\text{Mg}_3(\text{Bi,Sb})_2$ single crystals towards high thermoelectric performance. <i>Energy and Environmental Science</i> , 2020, 13, 1717-1724.	15.6	91
168	Influence of the Trier Elements ($M = \text{Al, Ga, In}$) on the Transport Properties of $\text{Ca}_5\text{M}_2\text{Sb}_6$ Zintl Compounds. <i>Chemistry of Materials</i> , 2012, 24, 2091-2098.	3.2	90
169	Phonon density of states and heat capacity of La_3Sb_7 . <i>Physical Review B</i> , 2009, 80, .	11.89	89
170	Temperature dependent solubility of Yb in YbCoSb_3 skutterudite and its effect on preparation, optimization and lifetime of thermoelectrics. <i>Journal of Materiomics</i> , 2015, 1, 75-84.	2.8	88
171	Capturing Anharmonicity in a Lattice Thermal Conductivity Model for High-Throughput Predictions. <i>Chemistry of Materials</i> , 2017, 29, 2494-2501.	3.2	88
172	Electronic quality factor for thermoelectrics. <i>Science Advances</i> , 2020, 6, .	4.7	88
173	Analytical and numerical parameter extraction for compact modeling of thermoelectric coolers. <i>International Journal of Heat and Mass Transfer</i> , 2013, 60, 689-699.	2.5	87
174	Thermoelectric alloys between PbSe and PbS with effective thermal conductivity reduction and high figure of merit. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3169.	5.2	87
175	Heat capacity of Mg_3Sb_2 , Mg_3Bi_2 , and their alloys at high temperature. <i>Materials Today Physics</i> , 2018, 6, 83-88.	2.9	87
176	Effective thermal conductivity in thermoelectric materials. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	86
177	Short-range order in defective half-Heusler thermoelectric crystals. <i>Energy and Environmental Science</i> , 2019, 12, 1568-1574.	15.6	86
178	Macroscopic thermoelectric inhomogeneities in $(\text{AgSbTe}_2)_x(\text{PbTe})_{1-x}$. <i>Applied Physics Letters</i> , 2005, 87, 171903.	1.5	85
179	Improved stability and high thermoelectric performance through cation site doping in n-type La-doped $\text{Mg}_3\text{Sb}_{1.5}\text{Bi}_{0.5}$. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19941-19946.	5.2	85
180	Thermoelectric Performance Enhancement in BiSbTe Alloy by Microstructure Modulation via Cyclic Spark Plasma Sintering with Liquid Phase. <i>Advanced Functional Materials</i> , 2021, 31, 2009681.	7.8	84

#	ARTICLE	IF	CITATIONS
181	The "electron crystal" behavior in copper chalcogenides Cu ₂ X (X = Se, S). Journal of Materials Chemistry A, 2017, 5, 5098-5105.	5.2	81
182	A Mesoporous Anisotropic n-Type Bi ₂ Te ₃ Monolith with Low Thermal Conductivity as an Efficient Thermoelectric Material. Advanced Materials, 2012, 24, 5065-5070.	11.1	80
183	Towards high efficiency segmented thermoelectric unicouples. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 9-17.	0.8	80
184	Composition Modulation of Ag ₂ Te Nanowires for Tunable Electrical and Thermal Properties. Nano Letters, 2014, 14, 5398-5404.	4.5	80
185	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
186	Optimized thermoelectric properties of Mo ₃ Sb ₇ Tex with significant phonon scattering by electrons. Energy and Environmental Science, 2011, 4, 4086.	15.6	77
187	Waste Heat Recovery from a Marine Waste Incinerator Using a Thermoelectric Generator. Journal of Electronic Materials, 2012, 41, 1024-1029.	1.0	77
188	Dopants effect on the band structure of PbTe thermoelectric material. Applied Physics Letters, 2012, 101, 092102.	1.5	76
189	Solidification processing of alloys in the pseudo-binary PbTe-Sb ₂ Te ₃ system. Acta Materialia, 2007, 55, 1227-1239.	3.8	73
190	Revealing nano-chemistry at lattice defects in thermoelectric materials using atom probe tomography. Materials Today, 2020, 32, 260-274.	8.3	73
191	SnO as a potential oxide thermoelectric candidate. Journal of Materials Chemistry C, 2017, 5, 8854-8861.	2.7	72
192	Self-Tuning n-Type Bi ₂ (Te,Se) ₃ /SiC Thermoelectric Nanocomposites to Realize High Performances up to 300 °C. Advanced Science, 2017, 4, 1700259.	5.6	72
193	Doping of p-Type ZnSb: Single parabolic band model and impurity band conduction. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2753-2759.	0.8	71
194	Nanocomposites from Solution-Synthesized PbTe-BiSbTe Nanoheterostructure with Unity Figure of Merit at Low-Medium Temperatures (500-600 K). Advanced Materials, 2017, 29, 1605140.	11.1	70
195	Observation of valence band crossing: the thermoelectric properties of CaZn ₂ Sb ₂ -CaMg ₂ Sb ₂ solid solution. Journal of Materials Chemistry A, 2018, 6, 9437-9444.	5.2	70
196	Thermoelectric Performance of n-Type (PbTe) _{0.75} (PbS) _{0.15} (PbSe) _{0.1} Composites. ACS Applied Materials & Interfaces, 2014, 6, 11476-11483.	4.0	69
197	High Thermoelectric Performance of New Rhombohedral Phase of GeSe stabilized through Alloying with AgSbSe ₂ . Angewandte Chemie - International Edition, 2017, 56, 14113-14118.	7.2	68
198	Achieving band convergence by tuning the bonding ionicity in n-Type Mg ₃ Sb ₂ . Journal of Computational Chemistry, 2019, 40, 1693-1700.	1.5	68

#	ARTICLE	IF	CITATIONS
199	Phase stability and chemical composition dependence of the thermoelectric properties of the type-I clathrate $Ba_8Al_xSi_46\hat{a}^x$ ($8\hat{a}^x\hat{a}^{\%15}$). Journal of Solid State Chemistry, 2011, 184, 1293-1303.	1.4	67
200	Influence of Compensating Defect Formation on the Doping Efficiency and Thermoelectric Properties of $Cu_{2-y}Se_{1-x}Br_x$. Chemistry of Materials, 2015, 27, 7018-7027.	3.2	67
201	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
202	Potential of Chevrel phases for thermoelectric applications. Solid State Sciences, 1999, 1, 535-544.	1.5	66
203	Thermoelectric Properties of Chalcogenides with the Spinel Structure. Materials Research Innovations, 2001, 5, 67-73.	1.0	66
204	Effect of disorder on the thermal transport and elastic properties in thermoelectric Zn_4Sb_3 . Physical Review B, 2006, 74, .	1.1	66
205	High Electron Mobility and Disorder Induced by Silver Ion Migration Lead to Good Thermoelectric Performance in the Argyrodite Ag_8SiSe_6 . Chemistry of Materials, 2017, 29, 4833-4839.	3.2	65
206	Evidence of magnetization-dependent polaron distortion in $La_{1-x}AxMnO_3$, $A=Ca,Pb$. Physical Review B, 1996, 54, R15606-R15609.	1.1	64
207	Applying Quantitative Microstructure Control in Advanced Functional Composites. Advanced Functional Materials, 2014, 24, 2135-2153.	7.8	63
208	Heterogeneous Distribution of Sodium for High Thermoelectric Performance of p-type Multiphase Lead-Chalcogenides. Advanced Energy Materials, 2015, 5, 1501047.	10.2	63
209	Understanding the thermally activated charge transport in $NaPb_mSb_{Q+m+2}$ (Q) Tj ETQq1 1 0.784314 rgBT carrier scattering. Energy and Environmental Science, 2020, 13, 1509-1518.	15.6	63
210	Hot spot cooling using embedded thermoelectric coolers. , 0, , .		62
211	Thermoelectric properties of p-type LiZnSb: Assessment of <i>ab initio</i> calculations. Journal of Applied Physics, 2009, 105, .	1.1	62
212	Temperature Dependent n-type Self Doping in Nominally 19-electron Half-Heusler Thermoelectric Materials. Advanced Energy Materials, 2018, 8, 1801409.	10.2	62
213	Formation of Sb_2Te_3 Widmanstatten precipitates in thermoelectric PbTe. Acta Materialia, 2009, 57, 666-672.	3.8	61
214	Quantifying charge carrier localization in chemically doped semiconducting polymers. Nature Materials, 2021, 20, 1414-1421.	13.3	61
215	The Thermoelectric Properties of n-Type Bismuth Telluride: Bismuth Selenide Alloys $Bi_2Te_3\hat{a}^xSex$. Research, 2020, 2020, 4361703.	2.8	61
216	A High-temperature, High-efficiency Solar Thermoelectric Generator Prototype. Energy Procedia, 2014, 49, 1460-1469.	1.8	60

#	ARTICLE	IF	CITATIONS
217	Brittle Failure Mechanism in Thermoelectric Skutterudite CoSb_3 . <i>Chemistry of Materials</i> , 2015, 27, 6329-6336.	3.2	60
218	Amphoteric Indium Enables Carrier Engineering to Enhance the Power Factor and Thermoelectric Performance in $\text{Ag}_n\text{Pb}_{100+n}\text{In}_n\text{Te}_{100+2n}$ (LIST). <i>Advanced Energy Materials</i> , 2019, 9, 1900414.	10.2	60
219	Thermoelectric Energy Harvesting. , 2009, , 325-336.		59
220	T-Shaped Bi_2Te_3 Te Heteronanojunctions: Epitaxial Growth, Structural Modeling, and Thermoelectric Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12458-12464.	1.5	59
221	Discrete M_6N Octahedra in the Subnitrides $\text{Na}_{16}\text{Ba}_6\text{N}$ and $\text{Ag}_{16}\text{Ca}_6\text{N}$: A Reconsideration of the Ag_8Ca_3 Structure Type. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 689-691.	4.4	57
222	Bonding and interfacial reaction between Ni foil and n-type PbTe thermoelectric materials for thermoelectric module applications. <i>Journal of Materials Science</i> , 2014, 49, 1716-1723.	1.7	57
223	Band convergence in the non-cubic chalcopyrite compounds $\text{Cu}_2\text{MGeSe}_4$. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10189-10194.	2.7	57
224	Significant Enhancement of Thermoelectric Figure of Merit in BiSbTe -Based Composites by Incorporating Carbon Microfiber. <i>Advanced Functional Materials</i> , 2021, 31, 2008851.	7.8	57
225	Magnetoconductivity and Hall effects in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$. <i>Applied Physics Letters</i> , 1996, 69, 4254-4256.	1.5	56
226	Rational design of p-type thermoelectric PbTe: temperature dependent sodium solubility. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8725.	5.2	56
227	3D extruded composite thermoelectric threads for flexible energy harvesting. <i>Nature Communications</i> , 2019, 10, 5590.	5.8	56
228	Analytical Models of Phonon Point-Defect Scattering. <i>Physical Review Applied</i> , 2020, 13, .	1.5	55
229	Preparation and thermoelectric properties of some phosphide skutterudite compounds. <i>Journal of Applied Physics</i> , 1999, 86, 6213-6217.	1.1	54
230	High-temperature thermoelectric studies of $\text{A}_{11}\text{Sb}_{10}$ (A=Yb, Ca). <i>Journal of Solid State Chemistry</i> , 2007, 180, 1414-1420.	1.4	54
231	Electron and phonon transport in Co-doped $\text{FeVO}_{0.6}\text{Nb}_{0.4}\text{Sb}$ half-Heusler thermoelectric materials. <i>Journal of Applied Physics</i> , 2013, 114, 134905.	1.1	54
232	Higher mobility in bulk semiconductors by separating the dopants from the charge-conducting band – a case study of thermoelectric PbSe. <i>Materials Horizons</i> , 2015, 2, 323-329.	6.4	54
233	Ductile deformation mechanism in semiconductor $\text{I}_\pm\text{-Ag}_2\text{S}$. <i>Npj Computational Materials</i> , 2018, 4, .	3.5	54
234	High Thermoelectric Performance in $\text{PbSe-Na}_2\text{SbSe}_2$ Alloys from Valence Band Convergence and Low Thermal Conductivity. <i>Advanced Energy Materials</i> , 2019, 9, 1901377.	10.2	54

#	ARTICLE	IF	CITATIONS
253	Synthesis, Structure, and High-Temperature Thermoelectric Properties of Boron-Doped Ba ₈ Al ₁₄ Si ₃₁ Clathrate I Phases. <i>Inorganic Chemistry</i> , 2008, 47, 8204-8212.	1.9	50
254	Improved carrier concentration control in Zn-doped Ca ₅ Al ₂ Sb ₆ . <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	50
255	Ideal Strength and Deformation Mechanism in High-Efficiency Thermoelectric SnSe. <i>Chemistry of Materials</i> , 2017, 29, 2382-2389.	3.2	50
256	A Chemical Understanding of the Band Convergence in Thermoelectric CoSb ₃ Skutterudites: Influence of Electron Population, Local Thermal Expansion, and Bonding Interactions. <i>Chemistry of Materials</i> , 2017, 29, 1156-1164.	3.2	50
257	Thermoelectric, transport, and magnetic properties of the polaron semiconductor Fe _x Cr _{3-x} Se ₄ . <i>Physical Review B</i> , 2000, 62, 10185-10193.	1.1	49
258	Thermoelectric Properties and Microstructure of Ba ₈ Al ₁₄ Si ₃₁ and EuBa ₇ Al ₁₃ Si ₃₃ . <i>Chemistry of Materials</i> , 2006, 18, 4939-4945.	3.2	49
259	Thermoelectric property studies on thallium-doped lead telluride prepared by ball milling and hot pressing. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	49
260	Optimizing Thermoelectric Efficiency in La _{3-x} Te ₄ via Yb Substitution. <i>Chemistry of Materials</i> , 2010, 22, 2995-2999.	3.2	49
261	Giant enhancement of the figure-of-merit over a broad temperature range in nano-boron incorporated Cu ₂ Se. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18409-18416.	5.2	49
262	Revealing the Intrinsic Electronic Structure of 3D Half-Heusler Thermoelectric Materials by Angle-Resolved Photoemission Spectroscopy. <i>Advanced Science</i> , 2020, 7, 1902409.	5.6	49
263	Unveiling the phonon scattering mechanisms in half-Heusler thermoelectric compounds. <i>Energy and Environmental Science</i> , 2020, 13, 5165-5176.	15.6	49
264	Ultralow Thermal Conductivity in Diamondoid Structures and High Thermoelectric Performance in (Cu _{1-x} Ag _x)(In _{1-y} Ga _y)Te ₂ . <i>Journal of the American Chemical Society</i> , 2021, 143, 5978-5989.	6.2	49
265	Effective thermal conductivity of polycrystalline materials with randomly oriented superlattice grains. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	48
266	Thermoelectric properties of Zn-doped Ca ₃ AlSb ₃ . <i>Journal of Materials Chemistry</i> , 2012, 22, 9826.	6.7	48
267	Enhanced thermoelectric performance in the very low thermal conductivity Ag ₂ Se _{0.5} Te _{0.5} . <i>Applied Physics Letters</i> , 2013, 103, .	1.5	48
268	Chemical composition tuning in quaternary p-type Pb-chalcogenides – a promising strategy for enhanced thermoelectric performance. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1835-1840.	1.3	48
269	Apparent critical phenomena in the superionic phase transition of Cu _{2-x} Se. <i>New Journal of Physics</i> , 2016, 18, 013024.	1.2	48
270	Enhanced ideal strength of thermoelectric half-Heusler TiNiSn by sub-structure engineering. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14625-14636.	5.2	48

#	ARTICLE	IF	CITATIONS
271	Engineering the Thermoelectric Transport in Half-Heusler Materials through a Bottom-Up Nanostructure Synthesis. <i>Advanced Energy Materials</i> , 2017, 7, 1700446.	10.2	48
272	Systematic over-estimation of lattice thermal conductivity in materials with electrically-resistive grain boundaries. <i>Energy and Environmental Science</i> , 2020, 13, 1250-1258.	15.6	48
273	Structure and high-temperature thermoelectric properties of SrAl ₂ Si ₂ . <i>Journal of Solid State Chemistry</i> , 2009, 182, 240-245.	1.4	47
274	Optimization of the carrier concentration in phase-separated half-Heusler compounds. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13513-13518.	5.2	47
275	High Temperature Thermoelectric Properties of the Solid-Solution Zintl Phase Eu ₁₁ Cd ₆ Zn _x Sb ₁₂ . <i>Chemistry of Materials</i> , 2015, 27, 4413-4421.	3.2	47
276	A computational assessment of the electronic, thermoelectric, and defect properties of bournonite (CuPbSbS ₃) and related substitutions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6743-6756.	1.3	47
277	Phase Transformation Contributions to Heat Capacity and Impact on Thermal Diffusivity, Thermal Conductivity, and Thermoelectric Performance. <i>Advanced Materials</i> , 2019, 31, e1902980.	11.1	47
278	Thermoelectric properties of Zn-doped Ca ₅ In ₂ Sb ₆ . <i>Dalton Transactions</i> , 2013, 42, 9713.	1.6	46
279	Ab initio study of intrinsic point defects in PbTe: an insight into phase stability. <i>Acta Materialia</i> , 2015, 92, 72-80.	3.8	46
280	Thermoelectric Materials: Band Engineering of Thermoelectric Materials (<i>Adv. Mater.</i> 46/2012). <i>Advanced Materials</i> , 2012, 24, 6124-6124.	11.1	45
281	Enhanced Strength Through Nanotwinning in the Thermoelectric Semiconductor InSb. <i>Physical Review Letters</i> , 2017, 119, 215503.	2.9	45
282	Micro- and Macromechanical Properties of Thermoelectric Lead Chalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40488-40496.	4.0	45
283	Thermal transport in defective and disordered materials. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	45
284	Electron and phonon scattering in the high-temperature thermoelectric $\text{La}_{1-x}\text{Sb}_x\text{Sb}_3$. <i>Physical Review B</i> , 2010, 81, .	11.1	44
285	Improved thermoelectric properties in Zn-doped Ca ₅ Ga ₂ Sb ₆ . <i>Journal of Materials Chemistry A</i> , 2013, 1, 4244.	5.2	44
286	Validity of rigid band approximation of PbTe thermoelectric materials. <i>APL Materials</i> , 2013, 1, .	2.2	44
287	Simple and efficient synthesis of nanograin structured single phase filled skutterudite for high thermoelectric performance. <i>Acta Materialia</i> , 2018, 142, 8-17.	3.8	44
288	Mg Deficiency in Grain Boundaries of n-Type Mg ₃ Sb ₂ Identified by Atom Probe Tomography. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900429.	1.9	44

#	ARTICLE	IF	CITATIONS
289	Phonon scattering by dislocations at grain boundaries in polycrystalline Bi _{0.5} Sb _{1.5} Te ₃ . <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600103.	0.7	43
290	Discovery of high-performance thermoelectric copper chalcogenide using modified diffusion-couple high-throughput synthesis and automated histogram analysis technique. <i>Energy and Environmental Science</i> , 2020, 13, 3041-3053.	15.6	43
291	Lead-free tin chalcogenide thermoelectric materials. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1449-1463.	3.0	42
292	The importance of phase equilibrium for doping efficiency: iodine doped PbTe. <i>Materials Horizons</i> , 2019, 6, 1444-1453.	6.4	42
293	Uncovering design principles for amorphous-like heat conduction using two-channel lattice dynamics. <i>Materials Today Physics</i> , 2021, 18, 100344.	2.9	42
294	Entropic stabilization and retrograde solubility in Zn ₄ Sb ₃ . <i>Physical Review B</i> , 2011, 83, .	1.1	41
295	High thermoelectric figure-of-merit in Sb ₂ Te ₃ /Ag ₂ Te bulk composites as Pb-free p-type thermoelectric materials. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10494-10499.	2.7	41
296	Parallel Dislocation Networks and Cottrell Atmospheres Reduce Thermal Conductivity of PbTe Thermoelectrics. <i>Advanced Functional Materials</i> , 2021, 31, 2101214.	7.8	41
297	Multistage thermoelectric microcoolers. <i>Journal of Applied Physics</i> , 2004, 95, 8226-8232.	1.1	40
298	Thermal stability and thermoelectric properties of p-type Ba ₈ Ga ₁₆ Ge ₃₀ clathrates. <i>Journal of Applied Physics</i> , 2009, 106, 074509.	1.1	40
299	High temperature thermoelectric properties of Mo ₃ Sb ₇ xTe ₈ for x=1.6 and 1.5. <i>Journal of Alloys and Compounds</i> , 2007, 427, 324-329.	2.8	39
300	Reduced thermal conductivity in Pb-alloyed AgSbTe ₂ thermoelectric materials. <i>Acta Materialia</i> , 2012, 60, 6144-6151.	3.8	39
301	Nanostructures in Te/Sb/Ge/Ag (TAGS) Thermoelectric Materials Induced by Phase Transitions Associated with Vacancy Ordering. <i>Inorganic Chemistry</i> , 2014, 53, 7722-7729.	1.9	39
302	Coinage-Metal-Stuffed Eu ₉ Cd ₄ Sb ₉ : Metallic Compounds with Anomalous Low Thermal Conductivities. <i>Chemistry of Materials</i> , 2015, 27, 7508-7519.	3.2	39
303	Alloy scattering of phonons. <i>Materials Horizons</i> , 2020, 7, 1452-1456.	6.4	39
304	Fracture toughness of thermoelectric materials. <i>Materials Science and Engineering Reports</i> , 2021, 144, 100607.	14.8	39
305	Printing thermoelectric inks toward next-generation energy and thermal devices. <i>Chemical Society Reviews</i> , 2022, 51, 485-512.	18.7	39
306	Effect of Ca Doping on the Thermoelectric Performance of Yb ₁₄ MnSb ₁₁ . <i>Journal of Electronic Materials</i> , 2010, 39, 1373-1375.	1.0	38

#	ARTICLE	IF	CITATIONS
307	Synthesis, Structural Characterization, and Physical Properties of the Type-I Clathrates $A_8Zn_{18}As_{28}$ (A) $Tj ETQq1$	1.0, 784314	38
308	Thermoelectric properties of the Zintl phases $Yb_5M_2Sb_6$ (M = Al,) $Tj ETQq0$	1.6	38
309	High-Temperature Transport Properties of the Zintl Phases $Yb_{11}GaSb_9$ and $Yb_{11}InSb_9$. Chemistry of Materials, 2010, 22, 935-941.	3.2	37
310	Synthesis, structure, magnetism, and high temperature thermoelectric properties of Ge doped $Yb_{14}MnSb_{11}$. Dalton Transactions, 2010, 39, 1055-1062.	1.6	37
311	Interfacial reactions between PbTe-based thermoelectric materials and Cu and Ag bonding materials. Journal of Materials Chemistry C, 2015, 3, 10590-10596.	2.7	37
312	Charge-carrier-mediated lattice softening contributes to high zT in thermoelectric semiconductors. Joule, 2021, 5, 1168-1182.	11.7	37
313	Graphene/Strontium Titanate: Approaching Single Crystal-Like Charge Transport in Polycrystalline Oxide Perovskite Nanocomposites through Grain Boundary Engineering. Advanced Functional Materials, 2020, 30, 1910079.	7.8	37
314	Effective Mass from Seebeck Coefficient. Advanced Functional Materials, 2022, 32, .	7.8	37
315	High-resolution nanostructural investigation of Zn_4Sb_3 alloys. Scripta Materialia, 2010, 63, 784-787.	2.6	36
316	High-temperature thermoelectric properties of $Cu_{1.97}Ag_{0.03}Se_{1+y}$. Materials for Renewable and Sustainable Energy, 2014, 3, 1.	1.5	36
317	Thermoelectric performance of co-doped SnTe with resonant levels. Applied Physics Letters, 2016, 109, .	1.5	36
318	Crystal Structure and Atomic Vacancy Optimized Thermoelectric Properties in Gadolinium Selenides. Chemistry of Materials, 2020, 32, 10130-10139.	3.2	36
319	Thermoelectric transport enhancement of Te-rich bismuth antimony telluride ($Bi_{0.5}Sb_{1.5}Te_{3+x}$) through controlled porosity. Journal of Materiomics, 2020, 6, 532-544.	2.8	36
320	Nanostructuring of Thermoelectric Mg_2Si via a Nonequilibrium Intermediate State. Small, 2012, 8, 2350-2355.	5.2	34
321	Transport properties and valence band feature of high-performance $(GeTe)_{85}(AgSbTe)_2$ thermoelectric materials. New Journal of Physics, 2014, 16, 013057.	1.2	34
322	Thermoelectric transport of semiconductor full-Heusler VFe_2Al . Journal of Materials Chemistry C, 2020, 8, 10174-10184.	2.7	34
323	On the Dopability of Semiconductors and Governing Material Properties. Chemistry of Materials, 2020, 32, 4467-4480.	3.2	34
324	Thermoelectric Properties of Novel Semimetals: A Case Study of $YbMnSb_2$. Advanced Materials, 2021, 33, e2003168.	11.1	34

#	ARTICLE	IF	CITATIONS
325	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
326	Distributed and localized cooling with thermoelectrics. Joule, 2021, 5, 748-751.	11.7	34
327	Local structure of interstitial Zn in $\hat{1}^2\hat{a}\hat{c}$ Zn ₄ Sb ₃ . Physica Status Solidi - Rapid Research Letters, 2007, 1, 253-255.	1.2	33
328	Predicted Electronic and Thermodynamic Properties of a Newly Discovered Zn ₈ Sb ₇ Phase. Journal of the American Chemical Society, 2011, 133, 11255-11261.	6.6	33
329	Solubility and microstructure in the pseudo-binary PbTe- \hat{a} Ag ₂ Te system. Journal of Solid State Chemistry, 2011, 184, 2543-2552.	1.4	33
330	Bond strength dependent superionic phase transformation in the solid solution series Cu ₂ ZnGeSe ₄ \hat{a} ^x S _x . Journal of Materials Chemistry A, 2014, 2, 1790-1794.	5.2	33
331	Denken wie ein Chemiker: Thermoelektrika intuitiv. Angewandte Chemie, 2016, 128, 6938-6954.	1.6	33
332	Grain boundary engineering with nano-scale InSb producing high performance In ₂ CeCo ₄ Sb ₁₂ +skutterudite thermoelectrics. Journal of Materiomics, 2017, 3, 273-279.	2.8	33
333	Thermal conductivity of complex materials. National Science Review, 2019, 6, 380-381.	4.6	33
334	The importance of the Mg \hat{a} Mg interaction in Mg ₃ Sb ₂ \hat{a} Mg ₃ Bi ₂ shown through cation site alloying. Journal of Materials Chemistry A, 2020, 8, 2033-2038.	5.2	33
335	Transport properties of the layered Zintl compound SrZnSb ₂ . Journal of Applied Physics, 2009, 106, .	1.1	32
336	Increased electrical conductivity in fine-grained (Zr,Hf)NiSn based thermoelectric materials with nanoscale precipitates. Applied Physics Letters, 2012, 100, .	1.5	32
337	Thermoelectric Properties and Electronic Structure of the Zintl \hat{a} Phase Sr ₃ AlSb ₃ . ChemSusChem, 2013, 6, 2316-2321.	3.6	32
338	High-Temperature Thermoelectric Properties of the Solid \hat{a} Solution Zintl Phase Eu ₁₁ Cd ₆ Sb ₁₂ \hat{a} ^x As _x (x < 1) Tj ETQg0 0 0 rgBT /Overloc	3.2	32
339	Machine Learning Chemical Guidelines for Engineering Electronic Structures in Half-Heusler Thermoelectric Materials. Research, 2020, 2020, 6375171.	2.8	32
340	Improved Thermoelectric Properties in Lu-doped Yb ₁₄ MnSb ₁₁ Zintl Compounds. Applied Physics Express, 2012, 5, 031801.	1.1	31
341	A new crystal: layer-structured rhombohedral In ₃ Se ₄ . CrystEngComm, 2014, 16, 393-398.	1.3	31
342	Thermoelectric properties and electronic structure of the Zintl phase Sr ₅ Al ₂ Sb ₆ . Dalton Transactions, 2014, 43, 4720.	1.6	31

#	ARTICLE	IF	CITATIONS
343	Enhanced thermoelectric performance in rare-earth filled-skutterudites. Journal of Materials Chemistry C, 2016, 4, 4374-4379.	2.7	31
344	Deformation mechanisms in high-efficiency thermoelectric layered Zintl compounds. Journal of Materials Chemistry A, 2017, 5, 9050-9059.	5.2	31
345	Understanding the High Thermoelectric Performance of $Mg_{3Sb_{2}}Mg_{3}Bi_{2}$ Alloys. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	31
346	Development of Thick-Film Thermoelectric Microcoolers Using Electrochemical Deposition. Materials Research Society Symposia Proceedings, 1998, 545, 493.	0.1	30
347	A study of heat sink performance in air and soil for use in a thermoelectric energy harvesting device. , 0, , .		30
348	Nanoscale structural domains in the phonon-glass thermoelectric material $Zn_{4}Sb_{3}$. Physical Review B, 2007, 75, .	1.1	30
349	Crystal structure, characterization and thermoelectric properties of the type-I clathrate $Ba_{8}ySryAl_{14}Si_{32}$ ($0.6 \leq y \leq 1.3$) prepared by aluminum flux. Journal of Solid State Chemistry, 2011, 184, 1176-1185.	1.4	30
350	Dramatically reduced lattice thermal conductivity of $Mg_{2}Si$ thermoelectric material from nanotwinning. Acta Materialia, 2019, 169, 9-14.	3.8	30
351	Orbital Chemistry That Leads to High Valley Degeneracy in PbTe. Chemistry of Materials, 2020, 32, 9771-9779.	3.2	30
352	Role of interfaces in organic-inorganic flexible thermoelectrics. Nano Energy, 2021, 89, 106380.	8.2	30
353	Nanoscale inclusions in the phonon glass thermoelectric material $Zn_{4}Sb_{3}$. Philosophical Magazine Letters, 2009, 89, 362-369.	0.5	29
354	Segmented Thermoelectric Oxide-Based Module for High-Temperature Waste Heat Harvesting. Energy Technology, 2015, 3, 1143-1151.	1.8	29
355	Prediction of improved thermoelectric performance by ordering in double half-Heusler materials. Journal of Materials Chemistry A, 2020, 8, 23590-23598.	5.2	29
356	High Thermoelectric Performance in Chalcopyrite $CuAgGaTe_{2}$ - $ZnTe$: Nontrivial Band Structure and Dynamic Doping Effect. Journal of the American Chemical Society, 2022, 144, 9113-9125.	6.6	29
357	Development of high efficiency segmented thermoelectric unicouples. , 0, , .		28
358	Thermoelectric performance of tellurium-reduced quaternary p-type lead chalcogenide composites. Acta Materialia, 2014, 80, 365-372.	3.8	28
359	Thermoelectric properties of the $Ca_{5}Al_{2}In_{x}Sb_{6}$ solid solution. Dalton Transactions, 2014, 43, 15872-15878.	1.6	28
360	p-Type Co Interstitial Defects in Thermoelectric Skutterudite $CoSb_{3}$ Due to the Breakage of Sb_{4} -Rings. Chemistry of Materials, 2016, 28, 2172-2179.	3.2	28

#	ARTICLE	IF	CITATIONS
361	Atomistic explanation of brittle failure of thermoelectric skutterudite CoSb ₃ . Acta Materialia, 2016, 103, 775-780.	3.8	28
362	Ultralow Thermal Conductivity in Diamond-Like Semiconductors: Selective Scattering of Phonons from Antisite Defects. Chemistry of Materials, 2018, 30, 3395-3409.	3.2	28
363	Phonon diffraction and dimensionality crossover in phonon-interface scattering. Communications Physics, 2018, 1, .	2.0	28
364	Origins of ultralow thermal conductivity in 1-2-1-4 quaternary selenides. Journal of Materials Chemistry A, 2019, 7, 2589-2596.	5.2	28
365	Scanning Seebeck Coefficient Measurement System for Homogeneity Characterization of Bulk and Thin-Film Thermoelectric Materials. Journal of Electronic Materials, 2012, 41, 1667-1674.	1.0	27
366	Thermoelectric properties of indium doped PbTe _{1-y} Se _y alloys. Journal of Applied Physics, 2014, 116, .	1.1	27
367	Interfacial Reaction Between Nb Foil and n-Type PbTe Thermoelectric Materials During Thermoelectric Contact Fabrication. Journal of Electronic Materials, 2014, 43, 4064-4069.	1.0	27
368	High temperature thermoelectric properties of Zn-doped Eu ₅ In ₂ Sb ₆ . Journal of Materials Chemistry C, 2015, 3, 10518-10524.	2.7	27
369	Empirical modeling of dopability in diamond-like semiconductors. Npj Computational Materials, 2018, 4, .	3.5	27
370	Thermal boundary resistance correlated with strain energy in individual Si film-wafer twist boundaries. Materials Today Physics, 2018, 6, 53-59.	2.9	27
371	Considering the Role of Ion Transport in Diffusion-Dominated Thermal Conductivity. Advanced Energy Materials, 2022, 12, .	10.2	27
372	Refined Structure and Properties of the Layered Mott Insulator BaCoS ₂ . Journal of Solid State Chemistry, 1994, 113, 355-361.	1.4	26
373	The New Laves Phase Na ₂ Ba. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1994, 49, 189-192.	0.3	26
374	In situ observation of eutectoid reaction forming a PbTe/Sb ₂ Te ₃ thermoelectric nanocomposite by synchrotron X-ray diffraction. Scripta Materialia, 2009, 60, 321-324.	2.6	26
375	Enhanced thermoelectric properties of the Zintl phase BaGa ₂ Sb ₂ via doping with Na or K. Journal of Materials Chemistry A, 2016, 4, 1867-1875.	5.2	26
376	Polycrystalline $ZrTe_5$ Parametrized as a Narrow-Band-Gap Semiconductor for Thermoelectric Performance. Physical Review Applied, 2018, 9, .	1.5	26
377	Thermopower-conductivity relation for distinguishing transport mechanisms: Polaron hopping in CeO ₂ and band conduction in SrTiO ₃ . Physical Review B, 2018, 97, .	1.1	26
378	Reduction of thermal conductivity in PbTe:Ti by alloying with $TlSbTe_2$. Physical Review B, 2011, 83, .	1.1	25

#	ARTICLE	IF	CITATIONS
379	Size control of Sb ₂ Te ₃ Widmanstätten precipitates in thermoelectric PbTe. <i>Acta Materialia</i> , 2011, 59, 2679-2692.	3.8	25
380	Nanostructuring in $\text{Zn}_{4-x}\text{Sb}_3$ with variable starting Zn compositions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1652-1657.	0.8	25
381	Bonding and high-temperature reliability of NiFeMo alloy/n-type PbTe joints for thermoelectric module applications. <i>Journal of Materials Science</i> , 2015, 50, 2700-2708.	1.7	25
382	Silver as a highly effective bonding layer for lead telluride thermoelectric modules assembled by rapid hot-pressing. <i>Energy Conversion and Management</i> , 2015, 98, 134-137.	4.4	25
383	Mechanical properties in thermoelectric oxides: Ideal strength, deformation mechanism, and fracture toughness. <i>Acta Materialia</i> , 2018, 149, 341-349.	3.8	25
384	Ultralow Thermal Conductivity and High-Temperature Thermoelectric Performance in n-Type $\text{K}_{2.5}\text{Bi}_{8.5}\text{Se}_{14}$. <i>Chemistry of Materials</i> , 2019, 31, 5943-5952.	3.2	25
385	Dislocations Stabilized by Point Defects Increase Brittleness in PbTe. <i>Advanced Functional Materials</i> , 2021, 31, 2108006.	7.8	25
386	Violation of the $\langle T \rangle \propto T^{-1}$ Relationship in the Lattice Thermal Conductivity of Mg_3Sb_2 with Locally Asymmetric Vibrations. <i>Research</i> , 2020, 2020, 4589786.	2.8	25
387	Conduction band engineering of half-Heusler thermoelectrics using orbital chemistry. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3051-3057.	5.2	25
388	Synthesis, Structure, and High Temperature Thermoelectric Properties of Yb ₁₁ Sb _{9.3} Ge _{0.5} . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007, 633, 1587-1594.	0.6	24
389	Development and Evolution of Nanostructure in Bulk Thermoelectric Pb-Te-Sb Alloys. <i>Journal of Electronic Materials</i> , 2007, 36, 716-720.	1.0	24
390	The compatibility approach in the classical theory of thermoelectricity seen from the perspective of variational calculus. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 760-765.	0.8	24
391	Thermoelectric Properties of Mn-Doped Ca ₅ Al ₂ Sb ₆ . <i>Journal of Electronic Materials</i> , 2012, 41, 813-818.	1.0	24
392	Atomic-Scale Interfacial Structure in Rock Salt and Tetradymite Chalcogenide Thermoelectric Materials. <i>Jom</i> , 2013, 65, 390-400.	0.9	24
393	Silicon-Based Thermoelectrics Made from a Boron-Doped Silicon Dioxide Nanocomposite. <i>Chemistry of Materials</i> , 2013, 25, 4867-4873.	3.2	24
394	Improved mechanical properties of thermoelectric ($\text{Bi}_{0.2}\text{Sb}_{0.8}$) ₂ Te ₃ by nanostructuring. <i>APL Materials</i> , 2016, 4, 104807.	2.2	24
395	Dopant-segregation to grain boundaries controls electrical conductivity of n-type NbCo(Pt)Sn half-Heusler alloy mediating thermoelectric performance. <i>Acta Materialia</i> , 2021, 217, 117147.	3.8	24
396	Dalton communications. The crystal structure of NaBa, an interpenetrating network of sodium tetrahedra and barium octahedra. <i>Journal of the Chemical Society Dalton Transactions</i> , 1994, , 1159.	1.1	23

#	ARTICLE	IF	CITATIONS
397	Formation of ordered nano-wire microstructures in thermoelectric PbAgSbTe. Acta Materialia, 2012, 60, 1129-1138.	3.8	23
398	Determining conductivity and mobility values of individual components in multiphase composite Cu _{1.97} Ag _{0.03} Se. Applied Physics Letters, 2014, 105, .	1.5	23
399	Response to "Comment on "Effective thermal conductivity in thermoelectric materials" [J. Appl. Phys. 113, 204904 (2013)]. Journal of Applied Physics, 2014, 115, .	1.1	23
400	Thermochemistry, Morphology, and Optical Characterization of Germanium Allotropes. Chemistry of Materials, 2014, 26, 3263-3271.	3.2	23
401	High performance p-type segmented leg of misfit-layered cobaltite and half-Heusler alloy. Energy Conversion and Management, 2015, 99, 20-27.	4.4	23
402	Synergistically Optimizing Carrier Concentration and Decreasing Sound Velocity in n-type AgInSe ₂ Thermoelectrics. Chemistry of Materials, 2019, 31, 8182-8190.	3.2	23
403	Microstructure and composition engineering Yb single-filled CoSb ₃ for high thermoelectric and mechanical performances. Journal of Materiomics, 2019, 5, 702-710.	2.8	23
404	Optimum load resistance for a thermoelectric generator system. Energy Conversion and Management, 2020, 226, 113490.	4.4	23
405	Defect chemistry and doping of BiCuSeO. Journal of Materials Chemistry A, 2021, 9, 20685-20694.	5.2	23
406	Maximum performance in self-compatible thermoelectric elements. Journal of Materials Research, 2011, 26, 1933-1939.	1.2	22
407	Chalcopyrite ZnSnSb ₂ : A Promising Thermoelectric Material. ACS Applied Materials & Interfaces, 2018, 10, 43682-43690.	4.0	22
408	Ternary eutectic growth of nanostructured thermoelectric Ag-Pb-Te materials. Applied Physics Letters, 2012, 101, 023107.	1.5	21
409	TAGS-related indium compounds and their thermoelectric properties in the solid solution series (GeTe) _x AgIn _y Sb _{1-x-y} Te ₂ (x + y = 1; x/y = 0.5) Tj&#x2011;Qq1 1 0j784314		
410	State of the art Ag ₅₀ -Sb ₅₀ -Te alloys: Their high zT values, microstructures and related phase equilibria. Acta Materialia, 2015, 93, 38-45.	3.8	21
411	Enhanced thermoelectric properties of Sr ₅ In ₂ Sb ₆ via Zn-doping. Journal of Materials Chemistry A, 2015, 3, 10289-10295.	5.2	21
412	Thermal stability of Mg ₂ Si _{0.4} Sn _{0.6} in inert gases and atomic-layer-deposited Al ₂ O ₃ thin film as a protective coating. Journal of Materials Chemistry A, 2016, 4, 17726-17731.	5.2	21
413	Zintl Phases: Recent Developments in Thermoelectrics and Future Outlook. RSC Energy and Environment Series, 2016, , 1-26.	0.2	21
414	Thermoelectric transport effects beyond single parabolic band and acoustic phonon scattering. Materials Advances, 2022, 3, 734-755.	2.6	21

#	ARTICLE	IF	CITATIONS
415	Increasing Seebeck Coefficients and Thermoelectric Performance of Sn/Sb/Te and Ge/Sb/Te Materials by Cd Doping. <i>Advanced Electronic Materials</i> , 2015, 1, 1500266.	2.6	20
416	Relating phase transition heat capacity to thermal conductivity and effusivity in Cu ₂ Se. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 618-621.	1.2	20
417	Manipulating Band Structure through Reconstruction of Binary Metal Sulfide for High-Performance Thermoelectrics in Solution-Synthesized Nanostructured Bi ₁₃ S ₁₈ I ₂ . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2413-2418.	7.2	20
418	First-principles calculations and experimental studies of XYZ ₂ thermoelectric compounds: detailed analysis of van der Waals interactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19502-19519.	5.2	20
419	Creep behavior and postcreep thermoelectric performance of the n-type half-Heusler alloy Hf _{0.3} Zr _{0.7} NiSn _{0.98} Sb _{0.02} . <i>Materials Today Physics</i> , 2019, 9, 100134.	2.9	20
420	Enhanced thermoelectric performance in Mg _{3+x} Sb _{1.5} Bi _{0.49} Te _{0.01} via engineering microstructure through melt-centrifugation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1733-1742.	5.2	20
421	Physical insights on the low lattice thermal conductivity of AgInSe ₂ . <i>Materials Today Physics</i> , 2021, 19, 100428.	2.9	20
422	Hidden Local Symmetry Breaking in Silver Diamondoid Compounds is Root Cause of Ultralow Thermal Conductivity. <i>Advanced Materials</i> , 2022, 34, e2202255.	11.1	20
423	Crystal structure of barium dihydride, BaH ₂ . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1994, 209, 458-458.	0.4	19
424	Crystal structure of Ag ₇ Ca ₂ a new intermetallic structure type. <i>Journal of Alloys and Compounds</i> , 1995, 223, 65-69.	2.8	19
425	Solubility and formation of ternary Widmanstätten precipitates in PbTe in the pseudo-binary PbTe-Bi ₂ Te ₃ system. <i>Journal of Materials Science</i> , 2011, 46, 3846-3854.	1.7	19
426	Mechanochemical synthesis and high temperature thermoelectric properties of calcium-doped lanthanum telluride La _{3-x} Ca _x Te ₄ . <i>Journal of Materials Chemistry C</i> , 2015, 3, 10459-10466.	2.7	19
427	High Thermoelectric Performance of New Rhombohedral Phase of GeSe stabilized through Alloying with AgSbSe ₂ . <i>Angewandte Chemie</i> , 2017, 129, 14301-14306.	1.6	19
428	Highly fluidic liquid at homointerface generates grain-boundary dislocation arrays for high-performance bulk thermoelectrics. <i>Acta Materialia</i> , 2018, 159, 266-275.	3.8	19
429	A New High Efficiency Segmented Thermoelectric Unicouple. , 1999, , .		18
430	Preparation and thermoelectric properties of CeFe ₄ As ₁₂ . <i>Journal of Applied Physics</i> , 2002, 91, 1344-1348.	1.1	18
431	Compatibility of segmented thermoelectric generators. , 0, , .		18
432	Synthesis and physical properties of single-crystalline InTe: towards high thermoelectric performance. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5250-5260.	2.7	18

#	ARTICLE	IF	CITATIONS
433	Regulating Te Vacancies through Dopant Balancing via Excess Ag Enables Rebounding Power Factor and High Thermoelectric Performance in PbTe . <i>Advanced Science</i> , 2021, 8, e2100895.	5.6	18
434	Effect of texturing on thermal, electric and elastic properties of MoAlB , Fe_2AlB_2 , and Mn_2AlB_2 . <i>Journal of the European Ceramic Society</i> , 2022, 42, 3183-3191.	2.8	18
435	Thermoelectric and structural properties of a new Chevrel phase: $\text{Ti}_{0.3}\text{Mo}_5\text{RuSe}_8$. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2158-2163.	1.4	17
436	The self-compatibility effect in graded thermoelectric cooler elements. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1407-1417.	0.8	17
437	Nanostructuring of Undoped ZnSb by Cryo-Milling. <i>Journal of Electronic Materials</i> , 2015, 44, 2578-2584.	1.0	17
438	Defect-Controlled Electronic Structure and Phase Stability in Thermoelectric Skutterudite CoSb_3 . <i>Chemistry of Materials</i> , 2017, 29, 3999-4007.	3.2	17
439	Thin-film metallic glass: an effective diffusion barrier for Se-doped AgSbTe_2 thermoelectric modules. <i>Scientific Reports</i> , 2017, 7, 45177.	1.6	17
440	Graphene-Like Exfoliated Quasi-2D Thermoelectric Crystals. , 2017, , 245-256.		17
441	Effect of anion substitution on the structural and transport properties of argyrodites $\text{Cu}_7\text{PSe}_6\text{S}_x$. <i>Dalton Transactions</i> , 2019, 48, 15822-15829.	1.6	17
442	Effect of Two-Dimensional Crystal Orbitals on Fermi Surfaces and Electron Transport in Three-Dimensional Perovskite Oxides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5503-5512.	7.2	17
443	Intrinsic carrier multiplication in layered $\text{Bi}_2\text{O}_2\text{Se}$ avalanche photodiodes with gain bandwidth product exceeding 1 GHz. <i>Nano Research</i> , 2021, 14, 1961-1966.	5.8	17
444	Phase Boundary Mapping of Tin-Doped ZnSb Reveals Thermodynamic Route to High Thermoelectric Efficiency. <i>Advanced Energy Materials</i> , 2021, 11, 2100181.	10.2	17
445	Band Engineering SnTe via Trivalent Substitutions for Enhanced Thermoelectric Performance. <i>Chemistry of Materials</i> , 2021, 33, 9624-9637.	3.2	17
446	Compatibility factor for the power output of a thermogenerator. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 250-252.	1.2	16
447	A combinatorial approach to microstructure and thermopower of bulk thermoelectric materials: the pseudo-ternary $\text{PbTe}-\text{Ag}_2\text{Te}-\text{Sb}_2\text{Te}_3$ system. <i>Journal of Materials Chemistry</i> , 2012, 22, 24335.	6.7	16
448	The microstructure, liquidus projection and thermodynamic modeling of thermoelectric $\text{Ag}-\text{Pb}-\text{Te}$ system. <i>Materials Chemistry and Physics</i> , 2013, 141, 758-767.	2.0	16
449	Characteristics of lattice thermal conductivity and carrier mobility of undoped $\text{PbSe}-\text{PbS}$ solid solutions. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 405301.	1.3	16
450	Interfacial reactions in Ni/CoSb_3 couples at 450 $^\circ\text{C}$. <i>Journal of Alloys and Compounds</i> , 2015, 632, 500-504.	2.8	16

#	ARTICLE	IF	CITATIONS
451	ZnSb Polymorphs with Improved Thermoelectric Properties. <i>Chemistry of Materials</i> , 2016, 28, 2912-2920.	3.2	16
452	Isotropic Zero Thermal Expansion and Local Vibrational Dynamics in (Sc,Fe)F ₃ . <i>Inorganic Chemistry</i> , 2017, 56, 10840-10843.	1.9	16
453	Introduction to Modeling Thermoelectric Transport at High Temperatures. , 2017, , 207-224.		16
454	Argyrodite-type Cu ₈ GeSe ₆ Te _x (0 ≤ x ≤ 2): Temperature-Dependent Crystal Structure and Thermoelectric Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 1915-1922.	0.6	16
455	Compressive creep behavior of hot-pressed GeTe based TAGS-85 and effect of creep on thermoelectric properties. <i>Acta Materialia</i> , 2018, 158, 239-246.	3.8	16
456	A Percolation Model for Piezoresistivity in Conductor-Polymer Composites. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800125.	1.3	16
457	Temperature-Dependent Band Renormalization in CoSb ₃ Skutterudites Due to Sb-Ring-Related Vibrations. <i>Chemistry of Materials</i> , 2021, 33, 1046-1052.	3.2	16
458	Thermoelectric microdevice fabrication process and evaluation at the Jet Propulsion Laboratory (JPL). , 0, , .		15
459	Thermal Management Optimization of a Thermoelectric-Integrated Methanol Evaporator Using a Compact CFD Modeling Approach. <i>Journal of Electronic Materials</i> , 2013, 42, 2035-2042.	1.0	15
460	Measuring anisotropic resistivity of single crystals using the van der Pauw technique. <i>Physical Review B</i> , 2015, 92, .	1.1	15
461	Compressive creep behaviour of hot-pressed PbTe. <i>Scripta Materialia</i> , 2017, 134, 71-74.	2.6	15
462	The Vacancy-Induced Electronic Structure of the SrTiO ₃ Surface. <i>Advanced Electronic Materials</i> , 2019, 5, 1800460.	2.6	15
463	Orbital chemistry of high valence band convergence and low-dimensional topology in PbTe. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12119-12139.	5.2	15
464	Disorder-induced Anderson-like localization for bidimensional thermoelectrics optimization. <i>Matter</i> , 2021, 4, 2970-2984.	5.0	15
465	Microstructure Size Control through Cooling Rate in Thermoelectric PbTe-Sb ₂ Te ₃ Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 641-650.	1.1	14
466	Formation of highly oriented large nanoscale In ₂ Te ₃ precipitates in bulk Bi ₂ Te ₃ . <i>Acta Materialia</i> , 2012, 60, 4461-4467.	3.8	14
467	The Influence of Weak Tin Doping on the Thermoelectric Properties of Zinc Antimonide. <i>Journal of Electronic Materials</i> , 2016, 45, 1871-1874.	1.0	14
468	Assessing the Thermal Conductivity of Cu _{2-x} Se Alloys Undergoing a Phase Transition via the Simultaneous Measurement of Thermoelectric Parameters by a Harman-Based Setup. <i>Journal of Electronic Materials</i> , 2018, 47, 3314-3319.	1.0	14

#	ARTICLE	IF	CITATIONS
469	Conventional sintered Cu ₂ -Se thermoelectric material. <i>Journal of Materiomics</i> , 2019, 5, 626-633.	2.8	14
470	Power-related compatibility and maximum electrical power output of a thermogenerator. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2399-2406.	0.8	13
471	Direct tuning of electrical properties in nano-structured Bi ₂ Se _{0.3} Te _{2.7} by reversible electrochemical lithium reactions. <i>Chemical Communications</i> , 2011, 47, 12173.	2.2	13
472	Interfacial disconnections at Sb ₂ Te ₃ precipitates in PbTe: Mechanisms of strain accommodation and phase transformation at a tetradymite/rocksalt telluride interface. <i>Acta Materialia</i> , 2011, 59, 7724-7735.	3.8	13
473	Phase Characterization, Thermal Stability, High-Temperature Transport Properties, and Electronic Structure of Rare-Earth Zintl Phosphides Eu ₃ M ₂ P ₄ (M = Ga, In). <i>Inorganic Chemistry</i> , 2013, 52, 3787-3794.	1.9	13
474	Electronic structure and thermoelectric properties of pnictogen-substituted A ₃ Sn _{1.5} Te _{1.5} (A = Co, Rh, Ir) skutterudites. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	13
475	Heterostructures of skutterudites and germanium antimony tellurides: structure analysis and thermoelectric properties of bulk samples. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10525-10533.	2.7	13
476	Structure and Failure Mechanism of the Thermoelectric CoSb ₃ /TiCoSb Interface. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31968-31977.	4.0	13
477	Resonant Bonding, Multiband Thermoelectric Transport, and Native Defects in n-Type BaBiTe ₃ (x =) Tj ETQq1.1 0.784314 rgB	3.2	13
478	Mechanical softening of thermoelectric semiconductor Mg ₂ Si from nanotwinning. <i>Scripta Materialia</i> , 2018, 157, 90-94.	2.6	13
479	Density, distribution and nature of planar faults in silver antimony telluride for thermoelectric applications. <i>Acta Materialia</i> , 2019, 178, 135-145.	3.8	13
480	Vibrational Entropy Stabilizes Distorted Half-Heusler Structures. <i>Chemistry of Materials</i> , 2020, 32, 4767-4773.	3.2	13
481	Thermoelectric Properties of Cr ₃ S ₄ -Type Selenides. <i>Materials Research Society Symposia Proceedings</i> , 1998, 545, 333.	0.1	12
482	Zone Leveling Crystal Growth of Thermoelectric PbTe Alloys with Sb ₂ Te ₃ Widmanstätten Precipitates. <i>Crystal Growth and Design</i> , 2011, 11, 4183-4189.	1.4	12
483	Reduction of lattice thermal conductivity from planar faults in the layered Zintl compound SrZnSb ₂ . <i>Journal of Applied Physics</i> , 2011, 109, 043509-043509-5.	1.1	12
484	Calculation of dopant solubilities and phase diagrams of X ₂ Pb ₂ Se (X = Br, Na) limited to defects with localized charge. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1769-1775.	2.7	12
485	Mechanical properties of thermoelectric lanthanum telluride from quantum mechanics. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 274002.	1.3	12
486	Quaternary Pavanites A _{1+x} Sn ₂ Bi _{5+x} S ₁₀ (A ⁺ = Li ⁺ , Na ⁺): Site Occupancy Disorder Defines Electronic Structure. <i>Inorganic Chemistry</i> , 2018, 57, 2260-2268.	1.9	12

#	ARTICLE	IF	CITATIONS
487	Titanium-based thin film metallic glass as diffusion barrier layer for PbTe-based thermoelectric modules. <i>APL Materials</i> , 2019, 7, .	2.2	12
488	High-performance p-type elemental Te thermoelectric materials enabled by the synergy of carrier tuning and phonon engineering. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12156-12168.	5.2	12
489	Thermoelectric Power Generation. , 2005, , 9-1-9-26.		12
490	Synthesis, structure, and properties of barium cobalt sulfide (Ba ₆ Co ₂ S ₂₇) a perovskite-like superstructure of Co ₈ S ₆ and Ba ₆ S clusters. <i>Inorganic Chemistry</i> , 1992, 31, 2107-2110.	1.9	11
491	Progress in the development of high efficiency segmented thermoelectric generators. , 1999, , .		11
492	A weak compatibility condition for precipitation with application to the microstructure of PbTe-Sb ₂ Te ₃ thermoelectrics. <i>Acta Materialia</i> , 2011, 59, 6124-6132.	3.8	11
493	Thermal studies of individual Si/Ge heterojunctions – The influence of the alloy layer on the heterojunction. <i>Journal of Materiomics</i> , 2020, 6, 248-255.	2.8	11
494	Using phase boundary mapping to resolve discrepancies in the Mg ₂ Si-Mg ₂ Sn miscibility gap. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7208-7215.	5.2	11
495	Thermal Evolution of Internal Strain in Doped PbTe. <i>Chemistry of Materials</i> , 2021, 33, 4765-4772.	3.2	11
496	What makes a material bendable? A thickness-dependent metric for bendability, malleability, ductility. <i>Matter</i> , 2021, 4, 2694-2696.	5.0	11
497	The Importance of Avoided Crossings in Understanding High Valley Degeneracy in Half-Heusler Thermoelectric Semiconductors. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	11
498	Ab initio studies of complexes of ozone with some positive ions. <i>Chemical Physics Letters</i> , 1994, 218, 372-376.	1.2	10
499	Synthesis and thermoelectric properties of alloys. <i>Journal of Alloys and Compounds</i> , 2007, 431, 262-268.	2.8	10
500	Synthesis and thermoelectric properties of YbSb ₂ Te ₄ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 265-267.	1.2	10
501	Evaluation of true interlamellar spacing from microstructural observations. <i>Journal of Materials Research</i> , 2008, 23, 2538-2544.	1.2	10
502	The Co-Sb-Ga System: Isolethal Section and Thermodynamic Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1488-1499.	1.1	10
503	Grain Boundaries Softening Thermoelectric Oxide BiCuSeO. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6772-6777.	4.0	10
504	Determining ideal strength and failure mechanism of thermoelectric CuInTe ₂ through quantum mechanics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11743-11750.	5.2	10

#	ARTICLE	IF	CITATIONS
505	Thermal Stability and Phase Purity in Polycrystalline Ba ₈ Ga _x Ge _{46-8x} . Journal of Electronic Materials, 2009, 38, 1423-1426.	1.0	9
506	Origin of resistivity anomaly in p-type lead chalcogenide multiphase compounds. AIP Advances, 2015, 5, 053601.	0.6	9
507	Unileg Thermoelectric Generator Design for Oxide Thermoelectrics and Generalization of the Unileg Design Using an Idealized Metal. Journal of Electronic Materials, 2015, 44, 1834-1845.	1.0	9
508	Thermoelectric properties and electronic structure of the Zintl phase Sr ₅ In ₂ Sb ₆ and the Ca ₅ As ₂ Sr _x In ₂ Sb ₆ solid solution. Journal of Physics Condensed Matter, 2015, 27, 015801.	0.7	9
509	Creep behavior and post-creep thermoelectric performance of the n-type Skutterudite alloy Yb _{0.3} Co ₄ Sb ₁₂ . Journal of Materiomics, 2021, 7, 89-97.	2.8	9
510	Probing the phonon mean free paths in dislocation core by molecular dynamics simulation. Journal of Applied Physics, 2021, 129, .	1.1	9
511	Phase-Transition-Enhanced Thermoelectric Transport in Rickardite Mineral Cu ₃ Te ₂ . Chemistry of Materials, 2021, 33, 1832-1841.	3.2	9
512	Embedded thermoelectric coolers for semiconductor hot spot cooling. , 0, , .		8
513	Antimony-121 Mössbauer Spectral Study of $\hat{\pm}$ -Zn ₄ Sb ₃ . Inorganic Chemistry, 2007, 46, 767-770.	1.9	8
514	Effect of Two-Dimensional Crystal Orbitals on Fermi Surfaces and Electron Transport in Three-Dimensional Perovskite Oxides. Angewandte Chemie, 2019, 131, 5557-5566.	1.6	8
515	Visualizing defect energetics. Materials Horizons, 2021, 8, 1966-1975.	6.4	8
516	Thermodynamic Guidelines for Maximum Solubility. Chemistry of Materials, 0, , .	3.2	8
517	INFLUENCE OF THE CHEMICAL POTENTIAL ON THE CARRIER EFFECTIVE MASS IN THE THERMOELECTRIC SOLID SOLUTION Cu ₂ Zn _{1-x} Fe _x GeSe ₄ . Functional Materials Letters, 2013, 06, 1340010.	0.7	7
518	The effect of Mg ₃ As ₂ alloying on the thermoelectric properties of n-type Mg ₃ (Sb, Bi) ₂ . Dalton Transactions, 2021, 50, 9376-9382.	1.6	7
519	Phonon scattering in the complex strain field of a dislocation in PbTe. Journal of Materials Chemistry C, 2021, 9, 8506-8514.	2.7	7
520	Inherent Anharmonicity of Harmonic Solids. Research, 2022, 2022, .	2.8	7
521	Thermoelectric Properties of Some Cobalt Phosphide-Arsenide Compounds. Materials Research Society Symposia Proceedings, 2000, 626, 141.	0.1	6
522	Solid-state power generation and cooling micro/nanodevices for distributed system architectures. , 0, , .		6

#	ARTICLE	IF	CITATIONS
541	Nonstoichiometry, Structure, and Electrical Properties of SrPrO_3 . Chemistry of Materials, 2005, 17, 5146-5154.	3.2	4
542	Nanostructure formation in bulk thermoelectric compounds in the pseudo binary PbTe-Sb ₂ Te ₃ system. Materials Research Society Symposia Proceedings, 2010, 1267, 1.	0.1	4
543	Comparison of Thermoelectric Transport Measurement Techniques Using n-type PbSe. Journal of Electronic Materials, 2015, 44, 1967-1971.	1.0	4
544	Themed issue on the chemistry of thermoelectric materials. Journal of Materials Chemistry C, 2015, 3, 10332-10335.	2.7	4
545	High temperature transport properties of BaZn ₂ Sn ₂ . Journal of Alloys and Compounds, 2015, 622, 402-407.	2.8	4
546	High Temperature Electronic and Thermal Transport Properties of EuGa _{2-x} In _x Sb ₂ . Journal of Electronic Materials, 2017, 46, 4798-4804.	1.0	4
547	Cobalt germanide precipitates indirectly improve the properties of thermoelectric germanium antimony tellurides. Journal of Materials Chemistry C, 2019, 7, 11419-11430.	2.7	4
548	Origin of inhomogeneity in spark plasma sintered bismuth antimony telluride thermoelectric nanocomposites. Nano Research, 2020, 13, 1339-1346.	5.8	4
549	Possibility of interstitial Na as electron donor in Yb ₁₄ MgSb ₁₁ . MRS Communications, 2021, 11, 226-232.	0.8	4
550	Stress/pressure-stabilized cubic polymorph of Li ₃ Sb with improved thermoelectric performance. Journal of Materials Chemistry A, 2021, 9, 25024-25031.	5.2	4
551	Iterative design of a high <i>zT</i> thermoelectric material. Applied Physics Letters, 2021, 119, .	1.5	4
552	Estimating the lower-limit of fracture toughness from ideal-strength calculations. Materials Horizons, 2022, 9, 825-834.	6.4	4
553	Structural Understanding of the Slater-Pauling Electron Count in Defective Heusler Thermoelectric TiFe _{1.5} Sb as a Valence Balanced Semiconductor. ACS Applied Electronic Materials, 0, .	2.0	4
554	Mapping Thermoelectric Transport in a Multicomponent Alloy Space. Advanced Electronic Materials, 2022, 8, .	2.6	4
555	Reaction of alkali metal intercalated C ₆₀ with oxygen: Deintercalation, activation, and decomposition. Advanced Materials, 1994, 6, 374-376.	11.1	3
556	Miniaturized radioisotope solid state power sources. AIP Conference Proceedings, 2000, , .	0.3	3
557	Testing of milliwatt power source components. , 0, , .		3
558	Thermoelectric properties of n-type polycrystalline Bi _x Sb _{2-x} Te ₃ alloys. , 0, , .		3

#	ARTICLE	IF	CITATIONS
559	Advanced Superlattice BiTe-PbTe/TAGS Milliwatt Radioisotope Power System. AIP Conference Proceedings, 2005, , .	0.3	3
560	Integrated electroplated heat spreaders for high power semiconductor lasers. Journal of Applied Physics, 2008, 104, 064907.	1.1	3
561	Hot pressing and nanostructuring of Bi ₉₀ Sb ₁₀ alloys to concurrently improve mechanical and thermoelectric properties. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2565-2569.	0.8	3
562	Liquidus projection and isothermal section at 650Â°C of ternary Co-Sb-Ga system. Journal of Alloys and Compounds, 2015, 637, 98-105.	2.8	3
563	Mode- and space-resolved thermal transport of alloy nanostructures. International Journal of Heat and Mass Transfer, 2022, 195, 123191.	2.5	3
564	Using the Compatibility Factor to Design High Efficiency Segmented Thermoelectric Generators. Materials Research Society Symposia Proceedings, 2003, 793, 118.	0.1	2
565	Lattice thermal conductivity of self-assembled PbTe-Sb ₂ Te ₃ composites with nanometer lamellae. , 2007, , .		2
566	Complex thermoelectric materials. , 2009, , 50-59.		2
567	Linear dependence of the Hall coefficient of 1% Na doped PbTe with varying magnetic field. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1273-1275.	0.8	2
568	Thermoelectric Properties and Microstructure Studies of Spinodally Decomposed PbTe _{0.38} S _{0.62} Alloy. Science of Advanced Materials, 2014, 6, 1453-1459.	0.1	2
569	Double Half-Heuslers. SSRN Electronic Journal, 0, , .	0.4	2
570	Chemical Interpretation of Charged Point Defects in Semiconductors: A Case Study of Mg ₂ Si. ChemNanoMat, 2022, 8, .	1.5	2
571	Intrinsic Properties of Doped Lanthanum Manganite. Materials Research Society Symposia Proceedings, 1995, 401, 541.	0.1	1
572	Title is missing!. Journal of Superconductivity and Novel Magnetism, 1999, 12, 295-298.	0.5	1
573	Effects of annealing electrodeposited bismuth telluride films. , 0, , .		1
574	The synthesis of CaZn ₂ Sb ₂ and its thermoelectric properties. , 0, , .		1
575	Thermoelectric properties of Nb ₃ Sb _x Te _{7-x} compounds. , 0, , .		1
576	Synchrotron X-ray structure refinement of Zn ₄ Sb ₃ . , 2005, , .		1

#	ARTICLE	IF	CITATIONS
577	Development of Segmented Thermoelectric Multicouple Converter Technology. , 0, , .		1
578	Co-In-Sb Ternary System (I): Isothermal Sections and Liquidus Projection. Metallurgical and Materials Transactions E, 2015, 2, 236-249.	0.5	1
579	Interfaces in energy materials. APL Materials, 2019, 7, .	2.2	1
580	Thermoelectric Materials: Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb ₂ (Adv. Mater. 7/2021). Advanced Materials, 2021, 33, 2170051.	11.1	1
581	When power factor supersedes αT to determine power in a thermocouple. Journal of Applied Physics, 2022, 131, 115101.	1.1	1
582	Critical Transport and Magnetization of La _{0.67} Ca _{0.3} MnO ₃ . Materials Research Society Symposia Proceedings, 1996, 453, 337.	0.1	0
583	Some properties of Re ₂ /Te ₅ -based materials. , 0, , .		0
584	Multistage thermoelectric micro coolers. , 0, , .		0
585	Solidification processing of Te-Sb-Pb alloys for thermoelectric applications. , 2005, , .		0
586	High temperature thermoelectric properties of Czochralski-pulled Ba ₈ Ga ₁₆ Ge ₃₀ . , 2006, , .		0
587	Development of Nanostructures in Thermoelectric Pb-Te-Sb Alloys. , 2006, , .		0
588	Development of interconnection materials for Bi ₂ Te ₃ and PbTe thermoelectric module by using SLID technique. , 2015, , .		0
589	Improved thermoelectric cooling based on the Thomson effect. , 2016, , .		0
590	Phase-Transition-Enhanced Thermoelectric Performance in Copper Selenide. , 2016, , 219-257.		0
591	Nanocomposites: Nanocomposites from Solution-Synthesized PbTe-BiSbTe Nanoheterostructure with Unity Figure of Merit at Low-Medium Temperatures (Adv. Mater. 10/2017). Advanced Materials, 2017, 29, .	11.1	0
592	Hall-Effect Measurements and Transport Properties of Heterostructures in the Model System NiTe ₂ -Sn ₁₂ Sb ₂ Te ₁₅ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1345-1351.	0.6	0
593	The Structure of High-performance Thermoelectric Material, .BETA.-Zn ₄ Sb ₃ by Maximum Entropy Method. Nihon Kessho Gakkaishi, 2005, 47, 204-210.	0.0	0
594	3D Microstructures of Sb ₂ Te ₃ Precipitates in PbTe Matrix with Prediction by a Weak Compatibility Condition. , 0, , 125-130.		0

#	ARTICLE	IF	CITATIONS
595	Ag rearrangement induced metal-insulator phase transition in thermoelectric MgAgSb. Materials Today Physics, 2022, 25, 100702.	2.9	0