

Li-Dong Zhao

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267
papers

24,463
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75
h-index

153
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289
ext. papers

28,990
ext. citations

11.6
avg, IF

7.47
L-index

#	Paper	IF	Citations
267	Ultralow thermal conductivity and high thermoelectric figure of merit in SnSe crystals. <i>Nature</i> , 2014 , 508, 373-7	50.4	3074
266	Ultrahigh power factor and thermoelectric performance in hole-doped single-crystal SnSe. <i>Science</i> , 2016 , 351, 141-4	33.3	1237
265	Rationally Designing High-Performance Bulk Thermoelectric Materials. <i>Chemical Reviews</i> , 2016 , 116, 12123-12149	68.1	1155
264	The panoscopic approach to high performance thermoelectrics. <i>Energy and Environmental Science</i> , 2014 , 7, 251-268	35.4	718
263	High-performance nanostructured thermoelectric materials. <i>NPG Asia Materials</i> , 2010 , 2, 152-158	10.3	679
262	Thermoelectric materials: Energy conversion between heat and electricity. <i>Journal of Materiomics</i> , 2015 , 1, 92-105	6.7	583
261	3D charge and 2D phonon transports leading to high out-of-plane in n-type SnSe crystals. <i>Science</i> , 2018 , 360, 778-783	33.3	569
260	All-scale hierarchical thermoelectrics: MgTe in PbTe facilitates valence band convergence and suppresses bipolar thermal transport for high performance. <i>Energy and Environmental Science</i> , 2013 , 6, 3346	35.4	532
259	High thermoelectric performance of p-type SnTe via a synergistic band engineering and nanostructuring approach. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7006-17	16.4	425
258	BiCuSeO oxyselenides: new promising thermoelectric materials. <i>Energy and Environmental Science</i> , 2014 , 7, 2900-2924	35.4	416
257	Non-equilibrium processing leads to record high thermoelectric figure of merit in PbTe-SrTe. <i>Nature Communications</i> , 2016 , 7, 12167	17.4	377
256	High performance thermoelectrics from earth-abundant materials: enhanced figure of merit in PbS by second phase nanostructures. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20476-87	16.4	377
255	Thermoelectric and mechanical properties of nano-SiC-dispersed Bi ₂ Te ₃ fabricated by mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2008 , 455, 259-264	5.7	312
254	Efficient uranium capture by polysulfide/layered double hydroxide composites. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3670-7	16.4	311
253	Codoping in SnTe: Enhancement of Thermoelectric Performance through Synergy of Resonance Levels and Band Convergence. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5100-12	16.4	310
252	Bi _{1-x} Sr _x CuSeO oxyselenides as promising thermoelectric materials. <i>Applied Physics Letters</i> , 2010 , 97, 092118	3.4	301
251	SnSe: a remarkable new thermoelectric material. <i>Energy and Environmental Science</i> , 2016 , 9, 3044-3060	35.4	297

250	A high thermoelectric figure of merit $ZT > 1$ in Ba heavily doped BiCuSeO oxyselenides. <i>Energy and Environmental Science</i> , 2012 , 5, 8543	35.4	292
249	Valence Band Modification and High Thermoelectric Performance in SnTe Heavily Alloyed with MnTe. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11507-16	16.4	289
248	High thermoelectric performance of oxyselenides: intrinsically low thermal conductivity of Ca-doped BiCuSeO. <i>NPG Asia Materials</i> , 2013 , 5, e47-e47	10.3	286
247	High thermoelectric performance via hierarchical compositionally alloyed nanostructures. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7364-70	16.4	281
246	Extraordinary role of Hg in enhancing the thermoelectric performance of p-type SnTe. <i>Energy and Environmental Science</i> , 2015 , 8, 267-277	35.4	279
245	High-performance SnSe thermoelectric materials: Progress and future challenge. <i>Progress in Materials Science</i> , 2018 , 97, 283-346	42.2	273
244	Texturation boosts the thermoelectric performance of BiCuSeO oxyselenides. <i>Energy and Environmental Science</i> , 2013 , 6, 2916	35.4	273
243	Raising the thermoelectric performance of p-type PbS with endotaxial nanostructuring and valence-band offset engineering using CdS and ZnS. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16327-36	16.4	264
242	Origin of the high performance in GeTe-based thermoelectric materials upon Bi ₂ Te ₃ doping. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11412-9	16.4	259
241	Remarkable enhancement in thermoelectric performance of BiCuSeO by Cu deficiencies. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20112-5	16.4	242
240	High thermoelectric performance in low-cost SnS ₂ crystals. <i>Science</i> , 2019 , 365, 1418-1424	33.3	233
239	Enhanced Thermoelectric Properties in the Counter-Doped SnTe System with Strained Endotaxial SrTe. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2366-73	16.4	213
238	Synergistically optimized electrical and thermal transport properties of SnTe via alloying high-solubility MnTe. <i>Energy and Environmental Science</i> , 2015 , 8, 3298-3312	35.4	209
237	Polycrystalline BiCuSeO oxide as a potential thermoelectric material. <i>Energy and Environmental Science</i> , 2012 , 5, 7188	35.4	203
236	Thermoelectrics with earth abundant elements: low thermal conductivity and high thermopower in doped SnS. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17302-17306	13	201
235	Thermoelectrics with earth abundant elements: high performance p-type PbS nanostructured with SrS and CaS. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7902-12	16.4	197
234	Low-cost, abundant binary sulfides as promising thermoelectric materials. <i>Materials Today</i> , 2016 , 19, 227-239	21.8	196
233	Enhanced thermoelectric properties in CoSb ₃ -xTex alloys prepared by mechanical alloying and spark plasma sintering. <i>Journal of Applied Physics</i> , 2007 , 102, 103717	2.5	187

232	Remarkable Roles of Cu To Synergistically Optimize Phonon and Carrier Transport in n-Type PbTe-CuTe. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18732-18738	16.4	179
231	Origin of low thermal conductivity in SnSe. <i>Physical Review B</i> , 2016 , 94,	3.3	176
230	Promising Thermoelectric Bulk Materials with 2D Structures. <i>Advanced Materials</i> , 2017 , 29, 1702676	24	165
229	Realizing High Figure of Merit in Phase-Separated Polycrystalline SnPbSe. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13647-13654	16.4	162
228	Seeking new, highly effective thermoelectrics. <i>Science</i> , 2020 , 367, 1196-1197	33.3	161
227	Superior thermoelectric performance in PbTeBbS pseudo-binary: extremely low thermal conductivity and modulated carrier concentration. <i>Energy and Environmental Science</i> , 2015 , 8, 2056-2068	35.4	157
226	Tellurium-Free Thermoelectric: The Anisotropic n-Type Semiconductor Bi ₂ S ₃ . <i>Advanced Energy Materials</i> , 2012 , 2, 634-638	21.8	157
225	Structural and Electronic Transport Properties in Sr-Doped BiCuSeO. <i>Chemistry of Materials</i> , 2012 , 24, 3168-3178	9.6	143
224	Anharmonicity and low thermal conductivity in thermoelectrics. <i>Materials Today Physics</i> , 2018 , 4, 50-57	8	141
223	Improvement of Thermoelectric Performance of CoSb ₃ Tex Skutterudite Compounds by Additional Substitution of IVB-Group Elements for Sb. <i>Chemistry of Materials</i> , 2008 , 20, 7526-7531	9.6	137
222	Boosting the Thermoelectric Performance of (Na,K)-Codoped Polycrystalline SnSe by Synergistic Tailoring of the Band Structure and Atomic-Scale Defect Phonon Scattering. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9714-9720	16.4	135
221	Synergistically Optimizing Electrical and Thermal Transport Properties of BiCuSeO via a Dual-Doping Approach. <i>Advanced Energy Materials</i> , 2016 , 6, 1502423	21.8	135
220	Thermoelectric properties of Mg doped p-type BiCuSeO oxyselenides. <i>Journal of Alloys and Compounds</i> , 2013 , 551, 649-653	5.7	131
219	Charge and phonon transport in PbTe-based thermoelectric materials. <i>Npj Quantum Materials</i> , 2018 , 3,	5	131
218	Realizing high performance n-type PbTe by synergistically optimizing effective mass and carrier mobility and suppressing bipolar thermal conductivity. <i>Energy and Environmental Science</i> , 2018 , 11, 2486-2495	35.4	129
217	Integrating Band Structure Engineering with All-Scale Hierarchical Structuring for High Thermoelectric Performance in PbTe System. <i>Advanced Energy Materials</i> , 2017 , 7, 1601450	21.8	125
216	High-performance tellurium-free thermoelectrics: all-scale hierarchical structuring of p-type PbSe-MSe systems (M = Ca, Sr, Ba). <i>Journal of the American Chemical Society</i> , 2013 , 135, 5152-60	16.4	123
215	Strong enhancement of phonon scattering through nanoscale grains in lead sulfide thermoelectrics. <i>NPG Asia Materials</i> , 2014 , 6, e108-e108	10.3	119

214	Extraordinary thermoelectric performance in n-type manganese doped Mg ₃ Sb ₂ Zintl: High band degeneracy, tuned carrier scattering mechanism and hierarchical microstructure. <i>Nano Energy</i> , 2018 , 52, 246-255	17.1	117
213	SnTe/AgBiTe ₂ as an efficient thermoelectric material with low thermal conductivity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20849-20854	13	117
212	The roles of Na doping in BiCuSeO oxyselenides as a thermoelectric material. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4903	13	116
211	Effect of mixed grain sizes on thermoelectric performance of Bi ₂ Te ₃ compound. <i>Journal of Applied Physics</i> , 2009 , 105, 023704	2.5	112
210	Strong phonon scattering by layer structured PbSnS(2) in PbTe based thermoelectric materials. <i>Advanced Materials</i> , 2012 , 24, 4440-4	24	111
209	Role of sodium doping in lead chalcogenide thermoelectrics. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4624-7	16.4	111
208	A mimetic transpiration system for record high conversion efficiency in solar steam generator under one-sun. <i>Materials Today Energy</i> , 2018 , 8, 166-173	7	106
207	Effects of annealing on electrical properties of n-type Bi ₂ Te ₃ fabricated by mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2009 , 467, 91-97	5.7	104
206	Enhanced thermoelectric performance of a BiCuSeO system via band gap tuning. <i>Chemical Communications</i> , 2013 , 49, 8075-7	5.8	98
205	Multiple Converged Conduction Bands in KBiSe: A Promising Thermoelectric Material with Extremely Low Thermal Conductivity. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16364-16371	16.4	95
204	Realizing High Thermoelectric Performance in p-Type SnSe through Crystal Structure Modification. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1141-1149	16.4	91
203	Morphology control of nanostructures: Na-doped PbTe-PbS system. <i>Nano Letters</i> , 2012 , 12, 5979-84	11.5	90
202	Simultaneously enhancing the power factor and reducing the thermal conductivity of SnTe via introducing its analogues. <i>Energy and Environmental Science</i> , 2017 , 10, 2420-2431	35.4	89
201	Subtle Roles of Sb and S in Regulating the Thermoelectric Properties of N-Type PbTe to High Performance. <i>Advanced Energy Materials</i> , 2017 , 7, 1700099	21.8	88
200	Raising thermoelectric performance of n-type SnSe via Br doping and Pb alloying. <i>RSC Advances</i> , 2016 , 6, 98216-98220	3.7	86
199	Record high thermoelectric performance in bulk SrTiO ₃ via nano-scale modulation doping. <i>Nano Energy</i> , 2017 , 35, 387-395	17.1	85
198	Effects of Sb compensation on microstructure, thermoelectric properties and point defect of CoSb ₃ compound. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 6784-6790	3	85
197	Enhanced thermoelectric properties of bismuth sulfide polycrystals prepared by mechanical alloying and spark plasma sintering. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 3278-3282	3.3	84

196	Influence of Pb doping on the electrical transport properties of BiCuSeO. <i>Applied Physics Letters</i> , 2013 , 102, 023902	3.4	81
195	Direct observation of vast off-stoichiometric defects in single crystalline SnSe. <i>Nano Energy</i> , 2017 , 35, 321-330	17.1	80
194	Power generation and thermoelectric cooling enabled by momentum and energy multiband alignments. <i>Science</i> , 2021 , 373, 556-561	33.3	79
193	Highly-anisotropic optical and electrical properties in layered SnSe. <i>Nano Research</i> , 2018 , 11, 554-564	10	77
192	Emulating Bilingual Synaptic Response Using a Junction-Based Artificial Synaptic Device. <i>ACS Nano</i> , 2017 , 11, 7156-7163	16.7	75
191	Significantly Enhanced Thermoelectric Performance in n-type Heterogeneous BiAgSeS Composites. <i>Advanced Functional Materials</i> , 2014 , 24, 7763-7771	15.6	74
190	Band Sharpening and Band Alignment Enable High Quality Factor to Enhance Thermoelectric Performance in -Type PbS. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4051-4060	16.4	71
189	Thermoelectric property of fine-grained CoSb ₃ skutterudite compound fabricated by mechanical alloying and spark plasma sintering. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 566-572	3	69
188	Pressure induced thermoelectric enhancement in SnSe crystals. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12073-12079	13	65
187	Synergistically optimizing interdependent thermoelectric parameters of n-type PbSe through alloying CdSe. <i>Energy and Environmental Science</i> , 2019 , 12, 1969-1978	35.4	63
186	Remarkable electron and phonon band structures lead to a high thermoelectric performance ZT > 1 in earth-abundant and eco-friendly SnS crystals. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10048-10056	13	59
185	High thermoelectric performance in n-type BiAgSeS due to intrinsically low thermal conductivity. <i>Energy and Environmental Science</i> , 2013 , 6, 1750	35.4	59
184	BiCuSeO Thermoelectrics: An Update on Recent Progress and Perspective. <i>Materials</i> , 2017 , 10,	3.5	59
183	Realizing high thermoelectric performance in GeTe through decreasing the phase transition temperature via entropy engineering. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26393-26401	13	58
182	Wear behavior of HVOF-sprayed Al _{0.6} TiCrFeCoNi high entropy alloy coatings at different temperatures. <i>Surface and Coatings Technology</i> , 2019 , 358, 215-222	4.4	56
181	Band inversion induced multiple electronic valleys for high thermoelectric performance of SnTe with strong lattice softening. <i>Nano Energy</i> , 2020 , 69, 104395	17.1	55
180	Intrinsically Low Thermal Conductivity in BiSbSe ₃ : A Promising Thermoelectric Material with Multiple Conduction Bands. <i>Advanced Functional Materials</i> , 2019 , 29, 1806558	15.6	53
179	The Thermoelectric Properties of SnSe Continue to Surprise: Extraordinary Electron and Phonon Transport. <i>Chemistry of Materials</i> , 2018 , 30, 7355-7367	9.6	52

178	Realizing High-Ranged Out-of-Plane ZTs in N-Type SnSe Crystals through Promoting Continuous Phase Transition. <i>Advanced Energy Materials</i> , 2019 , 9, 1901334	21.8	51
177	Ultrahigh Average Realized in p-Type SnSe Crystalline Thermoelectrics through Producing Extrinsic Vacancies. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5901-5909	16.4	51
176	CsHgInS ₃ : a New Quaternary Semiconductor for γ -ray Detection. <i>Chemistry of Materials</i> , 2012 , 24, 4434-4441	9.6	50
175	Approaching Topological Insulating States Leads to High Thermoelectric Performance in n-Type PbTe. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13097-13102	16.4	49
174	The Role of Ionized Impurity Scattering on the Thermoelectric Performances of Rock Salt AgPbmSnSe _{2+m} . <i>Advanced Functional Materials</i> , 2016 , 26, 5149-5157	15.6	47
173	CsCdInQ ₃ (Q = Se, Te): New Photoconductive Compounds As Potential Materials for Hard Radiation Detection. <i>Chemistry of Materials</i> , 2013 , 25, 2089-2099	9.6	46
172	Thermoelectric transport properties of polycrystalline SnSe alloyed with PbSe. <i>Applied Physics Letters</i> , 2017 , 110, 053901	3.4	44
171	High temperature oxidation behavior of Al _{0.6} CrFeCoNi and Al _{0.6} CrFeCoNiSi _{0.3} high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 845-852	5.7	44
170	Understanding Nanostructuring Processes in Thermoelectrics and Their Effects on Lattice Thermal Conductivity. <i>Advanced Materials</i> , 2016 , 28, 2737-43	24	43
169	Influence of Te substitution on the structural and electronic properties of thermoelectric BiCuSeO. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2921	13	43
168	Analysis of Nanoprecipitates in a Na-Doped PbTe-SrTe Thermoelectric Material with a High Figure of Merit. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21791-21797	9.5	41
167	Synergistically optimizing thermoelectric transport properties of n-type PbTe via Se and Sn co-alloying. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 208-221	5.7	41
166	Thermoelectric transport properties of Pb ₅ Sn _{1-x} Te _{5-x} Se system. <i>Rare Metals</i> , 2018 , 37, 343-350	5.5	40
165	Enhanced Electrical and Optoelectronic Characteristics of Few-Layer Type-II SnSe/MoS van der Waals Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42149-42155	9.5	40
164	Crystal Growth and Characterization of the X-ray and γ -ray Detector Material Cs ₂ Hg ₆ S ₇ . <i>Crystal Growth and Design</i> , 2012 , 12, 3250-3256	3.5	40
163	Photoconductivity in Tl ₆ SI ₄ : A Novel Semiconductor for Hard Radiation Detection. <i>Chemistry of Materials</i> , 2013 , 25, 2868-2877	9.6	39
162	Realizing High Thermoelectric Performance in GeTe through Optimizing Ge Vacancies and Manipulating Ge Precipitates. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7594-7601	6.1	37
161	Unexpected Large Hole Effective Masses in SnSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2017 , 119, 116401	7.4	37

160	Effects of process parameters on electrical properties of n-type Bi ₂ Te ₃ prepared by mechanical alloying and spark plasma sintering. <i>Physica B: Condensed Matter</i> , 2007 , 400, 11-15	2.8	36
159	Layered oxygen-containing thermoelectric materials: Mechanisms, strategies, and beyond. <i>Materials Today</i> , 2019 , 29, 68-85	21.8	35
158	Amphoteric Indium Enables Carrier Engineering to Enhance the Power Factor and Thermoelectric Performance in n-Type Ag _n Pb ₁₀₀ In _n Te _{100+2n} (LIST). <i>Advanced Energy Materials</i> , 2019 , 9, 1900414	21.8	34
157	Molecular Construction from AgGaS ₂ to CuZnPS ₄ : Defect-Induced Second Harmonic Generation Enhancement and Cosubstitution-Driven Band Gap Enlargement. <i>Chemistry of Materials</i> , 2020 , 32, 3288-3296	9.6	34
156	Influence of defects on the thermoelectricity in SnSe: A comprehensive theoretical study. <i>Physical Review B</i> , 2018 , 97,	3.3	33
155	Layered oxychalcogenide in the BiCu ₂ Se system as good thermoelectric materials. <i>Semiconductor Science and Technology</i> , 2014 , 29, 064001	1.8	33
154	Enhancing thermoelectric performance of SnTe via nanostructuring particle size. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 575-580	5.7	31
153	High-quality textured SnSe thin films for self-powered, rapid-response photothermoelectric application. <i>Nano Energy</i> , 2020 , 72, 104742	17.1	30
152	Lead-free tin chalcogenide thermoelectric materials. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 1449-1463	6.8	30
151	Thermo-photoelectric coupled effect induced electricity in N-type SnSe:Br single crystals for enhanced self-powered photodetectors. <i>Nano Energy</i> , 2019 , 66, 104111	17.1	29
150	Realization of n-type and enhanced thermoelectric performance of p-type BiCuSeO by controlled iron incorporation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13340-13349	13	29
149	Investigation into the extremely low thermal conductivity in Ba heavily doped BiCuSeO. <i>Nano Energy</i> , 2016 , 27, 167-174	17.1	29
148	Realizing High Thermoelectric Performance in Polycrystalline SnSe via Silver Doping and Germanium Alloying. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2049-2054	6.1	29
147	Significant Optimization of Electron-Phonon Transport of n-Type BiOSe by Mechanical Manipulation of Se Vacancies via Shear Exfoliation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21603-21609	9.5	28
146	Carrier mobility does matter for enhancing thermoelectric performance. <i>APL Materials</i> , 2020 , 8, 010901	5.7	27
145	Enhancing thermoelectric performance of n-type PbSe via additional meso-scale phonon scattering. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 719-726	6.8	26
144	Theoretical prediction and experimental confirmation of unusual ternary ordered semiconductor compounds in Sr-Pb-S system. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1628-35	16.4	26
143	Direct synthesis of BiCuChO-type oxychalcogenides by mechanical alloying. <i>Journal of Solid State Chemistry</i> , 2013 , 203, 187-191	3.3	26

142	High thermoelectric figure of merit $ZT > 1$ in SnS polycrystals. <i>Journal of Materiomics</i> , 2020 , 6, 77-85	6.7	26
141	The Atomic Circus: Small Electron Beams Spotlight Advanced Materials Down to the Atomic Scale. <i>Advanced Materials</i> , 2018 , 30, e1802402	24	26
140	Dynamic Ag ⁺ -intercalation with AgSnSe ₂ nano-precipitates in Cl-doped polycrystalline SnSe ₂ toward ultra-high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9761-9772	13	25
139	BaCu ₂ Se ₂ based compounds as promising thermoelectric materials. <i>Dalton Transactions</i> , 2015 , 44, 2285-23	23	25
138	High performance thermoelectrics from earth-abundant materials: Enhanced figure of merit in PbS through nanostructuring grain size. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 411-416	5.7	25
137	Synergistically optimizing interdependent thermoelectric parameters of n-type PbSe through introducing a small amount of Zn. <i>Materials Today Physics</i> , 2019 , 9, 100102	8	25
136	Evidence of an interlayer charge transfer route in BiCu _{1-x} SeO. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12154	13	25
135	Enhanced thermoelectric property originating from additional carrier pocket in skutterudite compounds. <i>Applied Physics Letters</i> , 2008 , 93, 042109	3.4	25
134	Single-Crystal SnSe Thermoelectric Fibers via Laser-Induced Directional Crystallization: From 1D Fibers to Multidimensional Fabrics. <i>Advanced Materials</i> , 2020 , 32, e2002702	24	25
133	High thermoelectric performance realized through manipulating layered phonon-electron decoupling.. <i>Science</i> , 2022 , 375, 1385-1389	33.3	24
132	Realizing high thermoelectric performance of polycrystalline SnS through optimizing carrier concentration and modifying band structure. <i>Journal of Alloys and Compounds</i> , 2019 , 789, 485-492	5.7	23
131	Estimation of the potential performance in p-type SnSe crystals through evaluating weighted mobility and effective mass. <i>Journal of Materiomics</i> , 2020 , 6, 671-676	6.7	23
130	Investigations on distinct thermoelectric transport behaviors of Cu in n-type PbS. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 820-830	5.7	23
129	Excellent ZT achieved in Cu _{1.8} S thermoelectric alloys through introducing rare-earth trichlorides. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14440-14448	13	23
128	Deposition and characterization of thermal barrier coatings of ZrO ₂ -x mol.% Y ₂ O ₃ -y mol.% Gd ₂ O ₃ -z mol.% Yb ₂ O ₃ . <i>Surface and Coatings Technology</i> , 2015 , 268, 205-208	4.4	22
127	Extremely low thermal conductivity from bismuth selenohalides with 1D soft crystal structure. <i>Science China Materials</i> , 2020 , 63, 1759-1768	7.1	22
126	Thermoelectric transport properties of rock-salt SnSe: first-principles investigation. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12016-12022	7.1	22
125	Mechanical properties of low-cost, earth-abundant chalcogenide thermoelectric materials, PbSe and PbS, with additions of 0-4 % CdS or ZnS. <i>Journal of Materials Science</i> , 2015 , 50, 1770-1782	4.3	22

124	Enhancing thermoelectric performance of SnTe via stepwisely optimizing electrical and thermal transport properties. <i>Journal of Alloys and Compounds</i> , 2019 , 773, 571-584	5.7	22
123	Hierarchical structures lead to high thermoelectric performance in $\text{Cu}_{1+n}\text{Pb}_{100}\text{Sb}_m\text{Te}_{100}\text{Se}_{2m}$ (CLAST). <i>Energy and Environmental Science</i> , 2021 , 14, 451-461	35.4	22
122	Attempting to realize n-type BiCuSeO. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 510-516	3.3	22
121	InFeZnO ₄ as Promising Thermal Barrier Coatings. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1664-1666	3.666	21
120	Highly Textured N-Type SnSe Polycrystals with Enhanced Thermoelectric Performance. <i>Research</i> , 2019 , 2019, 9253132	7.8	21
119	Effective dopants in p-type elementary Te thermoelectrics. <i>RSC Advances</i> , 2017 , 7, 17682-17688	3.7	20
118	Comprehensive Investigation on the Thermoelectric Properties of p-Type PbTe-PbSe-PbS Alloys. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900609	6.4	20
117	Slowing down the heat in thermoelectrics. <i>Information Materials</i> , 2021 , 3, 755-789	23.1	20
116	An overview of advanced thermoelectric materials. <i>Journal of Materiomics</i> , 2016 , 2, 101-103	6.7	20
115	Homologous layered InFeO ₃ (ZnO) _m : new promising abrasible seal coating materials. <i>Rare Metals</i> , 2018 , 37, 79-94	5.5	20
114	The phase stability and thermophysical properties of InFeO ₃ (ZnO) _m (m=2, 3, 4, 5). <i>Journal of the European Ceramic Society</i> , 2014 , 34, 63-68	6	19
113	Low temperature transport properties of the BiCuSeO system. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2273-2276	1.6	19
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