Li-Dong Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

267 24,463 75 153 h-index g-index citations papers 11.6 28,990 289 7.47 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
267	Realizing synergistic optimization of thermoelectric properties in n-type BiSbSe3 polycrystals via co-doping zirconium and halogen. <i>Materials Today Physics</i> , 2022 , 22, 100608	8	1
266	Ultrahigh carrier mobility contributes to remarkably enhanced thermoelectric performance in n-type PbSe. <i>Energy and Environmental Science</i> , 2022 , 15, 346-355	35.4	8
265	Enhanced thermoelectric perfromance in cubic form of SnSe stabilized through enformatingly alloying AgSbTe2. <i>Acta Materialia</i> , 2022 , 227, 117681	8.4	1
264	Remarkable electron and phonon transports in low-cost SnS: A new promising thermoelectric material. <i>Science China Materials</i> , 2022 , 65, 1143-1155	7.1	2
263	Synergistically optimizing carrier and phonon transport properties in n-type PbTe through I doping and SnSe alloying. <i>Materials Today Energy</i> , 2022 , 100983	7	О
262	High thermoelectric performance realized through manipulating layered phonon-electron decoupling <i>Science</i> , 2022 , 375, 1385-1389	33.3	24
261	Distinct electron and hole transports in SnSe crystals. <i>Science Bulletin</i> , 2022 , 67, 1105-1105	10.6	1
260	Synergistically Enhanced Thermoelectric Properties in n-Type Bi6Cu2Se4O6 through Inducing Resonant Levels. <i>Acta Materialia</i> , 2022 , 117930	8.4	1
259	Enhanced thermoelectric performance in SnTe due to the energy filtering effect introduced by Bi2O3. <i>Materials Today Energy</i> , 2022 , 25, 100985	7	5
258	Honeycomb-like puckered PbSe with wide bandgap as promising thermoelectric material: a first-principles prediction. <i>Materials Today Energy</i> , 2021 , 23, 100914	7	4
257	Evaluation on the Thermoelectric Cooling Ability of PbTe. ACS Applied Energy Materials, 2021, 4, 11813-	1d.&18	О
256	Realizing ranged performance in SnTe through integrating bands convergence and DOS distortion. Journal of Materiomics, 2021 , 8, 184-184	6.7	1
255	Realizing high thermoelectric properties in p-type polycrystalline SnSe by inducing DOS distortion. <i>Rare Metals</i> , 2021 , 40, 2819-2828	5.5	5
254	Contrasting Thermoelectric Transport Properties of n-Type PbS Induced by Adding Ni and Zn. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6284-6289	6.1	О
253	Nanoscale bubble domains with polar topologies in bulk ferroelectrics. <i>Nature Communications</i> , 2021 , 12, 3632	17.4	10
252	Contrasting Cu Roles Lead to High Ranged Thermoelectric Performance of PbS. <i>Advanced Functional Materials</i> , 2021 , 31, 2102185	15.6	14
251	Dynamic carrier transports and low thermal conductivity in n-type layered InSe thermoelectrics. <i>Aggregate</i> , 2021 , 2, e92	22.9	2

(2021-2021)

250	Realizing N-type SnTe Thermoelectrics with Competitive Performance through Suppressing Sn Vacancies. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8538-8542	16.4	12
249	Slowing down the heat in thermoelectrics. <i>Informa@@Materilly</i> , 2021 , 3, 755-789	23.1	20
248	An Update Review on -Type Layered Oxyselenide Thermoelectric Materials. <i>Materials</i> , 2021 , 14,	3.5	4
247	Physical insights on the low lattice thermal conductivity of AgInSe2. <i>Materials Today Physics</i> , 2021 , 19, 100428	8	9
246	Power generation and thermoelectric cooling enabled by momentum and energy multiband alignments. <i>Science</i> , 2021 , 373, 556-561	33.3	79
245	Understanding the electrical transports of p-type polycrystalline SnSe with effective medium theory. <i>Applied Physics Letters</i> , 2021 , 119, 044103	3.4	2
244	Boosting thermoelectric performance of n-type PbS through synergistically integrating In resonant level and Cu dynamic doping. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 148, 109640	3.9	10
243	Enhanced thermoelectric performance in Cl-doped BiSbSe3 with optimal carrier concentration and effective mass. <i>Journal of Materials Science and Technology</i> , 2021 , 70, 67-72	9.1	5
242	Preparing bulk Cu-Ni-Mn based thermoelectric alloys and synergistically improving their thermoelectric and mechanical properties using nanotwins and nanoprecipitates. <i>Materials Today Physics</i> , 2021 , 17, 100332	8	8
241	Boosting the thermoelectric performance of GeTe by manipulating the phase transition temperature via Sb doping. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 6484-6490	7.1	6
240	Hierarchical structures lead to high thermoelectric performance in Cum+nPb100SbmTe100Se2m (CLAST). Energy and Environmental Science, 2021, 14, 451-461	35.4	22
239	Realizing high doping efficiency and thermoelectric performance in n-type SnSe polycrystals via bandgap engineering and vacancy compensation. <i>Materials Today Physics</i> , 2021 , 20, 100452	8	3
238	Band structure and microstructure modulations enable high quality factor to elevate thermoelectric performance in Ge0.9Sb0.1Te-x%FeTe2. <i>Materials Today Physics</i> , 2021 , 20, 100444	8	6
237	Anisotropic thermoelectric transport properties in polycrystalline SnSe2 *. <i>Chinese Physics B</i> , 2021 , 30, 067101	1.2	1
236	Enhancing thermoelectric performance of n-type Bi6Cu2Se4O6 through introducing transition metal elements. <i>Scripta Materialia</i> , 2021 , 202, 114010	5.6	4
235	Thermo-phototronic effect in p-type Na-doped SnS single crystals for enhanced self-powered photodetectors. <i>Nano Energy</i> , 2021 , 88, 106268	17.1	1
234	Band convergence and nanostructure modulations lead to high thermoelectric performance in SnPb0.04Te-y% AgSbTe2. <i>Materials Today Physics</i> , 2021 , 21, 100505	8	7
233	Bridging the miscibility gap towards higher thermoelectric performance of PbS. <i>Acta Materialia</i> , 2021 , 220, 117337	8.4	4

232	Realizing high thermoelectric performance in SnSe2 via intercalating Cu. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021 , 0-0	0.6	O
231	Phonon and Carrier Transport Properties in Low-Cost and Environmentally Friendly SnS2: A Promising Thermoelectric Material. <i>Chemistry of Materials</i> , 2020 , 32, 10348-10356	9.6	7
230	Investigation on carrier mobility when comparing nanostructures and bands manipulation. <i>Nanoscale</i> , 2020 , 12, 12741-12747	7.7	9
229	Influence of direct electric current on wetting behavior during brazing. <i>Frontiers of Mechanical Engineering</i> , 2020 , 15, 496-503	3.3	
228	Thermoelectric transport properties of PbS and its contrasting electronic band structures. <i>Scripta Materialia</i> , 2020 , 185, 76-81	5.6	4
227	Key influencing factors for the thermal shock resistance of La2Zr2O7-based multilayer TBCs. Surface and Coatings Technology, 2020 , 396, 125951	4.4	8
226	Extremely low thermal conductivity from bismuth selenohalides with 1D soft crystal structure. <i>Science China Materials</i> , 2020 , 63, 1759-1768	7.1	22
225	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
224	Sb2Si2Te6: A Robust New Thermoelectric Material. <i>Trends in Chemistry</i> , 2020 , 2, 89-91	14.8	12
223	Synergistically improving thermoelectric and mechanical properties of Ge0.94Bi0.06Te through dispersing nano-SiC. <i>Scripta Materialia</i> , 2020 , 183, 22-27	5.6	17
222	A telomerase-responsive nanoprobe with theranostic properties in tumor cells. <i>Talanta</i> , 2020 , 215, 120	8 6.2	5
221	Molecular Construction from AgGaS2 to CuZnPS4: Defect-Induced Second Harmonic Generation Enhancement and Cosubstitution-Driven Band Gap Enlargement. <i>Chemistry of Materials</i> , 2020 , 32, 3288	-3296	34
220	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
219	Contrasting roles of small metallic elements M (M = Cu, Zn, Ni) in enhancing the thermoelectric performance of n-type PbM0.01Se. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5699-5708	13	12
218	Enhancing thermoelectric performance of BiSbSe3 through improving carrier mobility via percolating carrier transports. <i>Journal of Alloys and Compounds</i> , 2020 , 836, 155473	5.7	6
217	Improving the thermoelectric performance of p-type PbSe via synergistically enhancing the Seebeck coefficient and reducing electronic thermal conductivity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4931-4937	13	18
216	Enhancing thermoelectric performance of n-type PbTe through separately optimizing phonon and charge transport properties. <i>Journal of Alloys and Compounds</i> , 2020 , 828, 154377	5.7	7
215	Carrier mobility does matter for enhancing thermoelectric performance. <i>APL Materials</i> , 2020 , 8, 010901	5.7	27

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214	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
213	Large effective mass and low lattice thermal conductivity contributing to high thermoelectric performance of Zn-doped Cu5Sn2Se7. <i>Journal of Alloys and Compounds</i> , 2020 , 826, 154154	5.7	7
212	High-quality textured SnSe thin films for self-powered, rapid-response photothermoelectric application. <i>Nano Energy</i> , 2020 , 72, 104742	17.1	30
211	Temperature-driven n-p conduction type switching without structural transition in a Cu-rich chalcogenide, NaCuS. <i>Chemical Communications</i> , 2020 , 56, 4882-4885	5.8	3
2 10	Seeking new, highly effective thermoelectrics. <i>Science</i> , 2020 , 367, 1196-1197	33.3	161
209	Contrasting Thermoelectric Transport Behaviors of -Type PbS Caused by Doping Alkali Metals (Li and Na). <i>Research</i> , 2020 , 2020, 4084532	7.8	O
208	An approach of enhancing thermoelectric performance for p-type PbS: Decreasing electronic thermal conductivity. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153453	5.7	11
207	High thermoelectric figure of merit ZT > 1 in SnS polycrystals. <i>Journal of Materiomics</i> , 2020 , 6, 77-85	6.7	26
206	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
205	Synergistically Enhancing Thermoelectric Performance of n-Type PbTe with Indium Doping and Sulfur Alloying. <i>Annalen Der Physik</i> , 2020 , 532, 1900421	2.6	11
204	High-Quality SnSe2 Single Crystals: Electronic and Thermoelectric Properties. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10787-10792	6.1	10
203	Predicting the Potential Performance in P-Type SnS Crystals via Utilizing the Weighted Mobility and Quality Factor. <i>Chinese Physics Letters</i> , 2020 , 37, 087104	1.8	12
202	Symmetry and asymmetry in thermoelectrics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12054-12061	7.1	8
201	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
200	Synergistically optimizing charge and phonon transport properties in n-type PbTe via introducing ternary compound AgSb(Se, Te)2. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152463	5.7	8
199	Electrical and Thermal Transport Properties of n-type Bi6Cu2Se4O6 (2BiCuSeO + 2Bi2O2Se). <i>Annalen Der Physik</i> , 2020 , 532, 1900340	2.6	5
198	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
197	Comprehensive Investigation on the Thermoelectric Properties of p-Type PbTe-PbSe-PbS Alloys. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900609	6.4	20

196	Pressure-induced enhancement of thermoelectric power factor in pristine and hole-doped SnSe crystals <i>RSC Advances</i> , 2019 , 9, 26831-26837	3.7	4
195	Layered oxygen-containing thermoelectric materials: Mechanisms, strategies, and beyond. <i>Materials Today</i> , 2019 , 29, 68-85	21.8	35
194	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
193	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
192	High thermoelectric performance in low-cost SnSSe crystals. <i>Science</i> , 2019 , 365, 1418-1424	33.3	233
191	Thermoelectric transport properties of n-type tin sulfide. <i>Scripta Materialia</i> , 2019 , 170, 99-105	5.6	17
190	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
189	Significant Optimization of Electron-Phonon Transport of n-Type BiOSe by Mechanical Manipulation of Se Vacancies via Shear Exfoliation. <i>ACS Applied Materials & Description</i> 11, 21603-21609	9.5	28
188	Seeing atomic-scale structural origins and foreseeing new pathways to improved thermoelectric materials. <i>Materials Horizons</i> , 2019 , 6, 1548-1570	14.4	16
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	Realizing n-type BiCuSeO through halogens doping. <i>Ceramics International</i> , 2019 , 45, 14953-14957	5.1	7
185	Dynamic Ag+-intercalation with AgSnSe2 nano-precipitates in Cl-doped polycrystalline SnSe2 toward ultra-high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9761-9772	13	25
184	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
183	Amphoteric Indium Enables Carrier Engineering to Enhance the Power Factor and Thermoelectric Performance in n-Type AgnPb100InnTe100+2n (LIST). <i>Advanced Energy Materials</i> , 2019 , 9, 1900414	21.8	34
182	Effects of temperature and pressure on the optical and vibrational properties of thermoelectric SnSe. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 8663-8678	3.6	16
181	A highly porous thermal barrier coating based on Gd2O3\(\text{M} b2O3 \) co-doped YSZ. <i>Surface and Coatings Technology</i> , 2019 , 366, 349-354	4.4	10
180	Oxygen adsorption and its influence on the thermoelectric performance of polycrystalline SnSe. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10507-10513	7.1	16
179	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

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178	Enhancing Thermoelectric Performance of p-Type PbSe through Suppressing Electronic Thermal Transports. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8236-8243	6.1	18
177	Enhancing thermoelectric transport properties of n-type PbS through introducing CaS/SrS. <i>Journal of Solid State Chemistry</i> , 2019 , 280, 120995	3.3	11
176	Highly Textured N-Type SnSe Polycrystals with Enhanced Thermoelectric Performance. <i>Research</i> , 2019 , 2019, 9253132	7.8	21
175	Synergistically optimized electrical and thermal transport properties of polycrystalline SnSe via alloying SnS. <i>Journal of Solid State Chemistry</i> , 2019 , 273, 85-91	3.3	15
174	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
173	Probing exosome internalization pathways through confocal microscopy imaging. <i>Chemical Communications</i> , 2019 , 55, 14015-14018	5.8	11
172	Enhancing the thermoelectric performance of Bi2S3: A promising earth-abundant thermoelectric material. <i>Frontiers of Physics</i> , 2019 , 14, 1	3.7	13
171	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
170	Thermoelectric Material SnPbBiS: The L Member of Lillianite Homologous Series with Low Lattice Thermal Conductivity. <i>Inorganic Chemistry</i> , 2019 , 58, 1339-1348	5.1	4
169	Intrinsically Low Thermal Conductivity in BiSbSe3: A Promising Thermoelectric Material with Multiple Conduction Bands. <i>Advanced Functional Materials</i> , 2019 , 29, 1806558	15.6	53
168	Wear behavior of HVOF-sprayed Al0.6TiCrFeCoNi high entropy alloy coatings at different temperatures. <i>Surface and Coatings Technology</i> , 2019 , 358, 215-222	4.4	56
167	Realizing High Thermoelectric Performance in p-Type SnSe through Crystal Structure Modification. Journal of the American Chemical Society, 2019 , 141, 1141-1149	16.4	91
166	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
165	High performance of n-type (PbS)1-x-y(PbSe)x(PbTe)y thermoelectric materials. <i>Journal of Alloys and Compounds</i> , 2018 , 744, 769-777	5.7	18
164	Thermoelectric transport properties of PbBnIIeBe system. Rare Metals, 2018, 37, 343-350	5.5	40
163	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
162	Thermoelectric transport properties of rock-salt SnSe: first-principles investigation. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12016-12022	7.1	22
161	High-performance SnSe thermoelectric materials: Progress and future challenge. <i>Progress in Materials Science</i> , 2018 , 97, 283-346	42.2	273

160	Anharmoncity and low thermal conductivity in thermoelectrics. <i>Materials Today Physics</i> , 2018 , 4, 50-57	8	141
159	Unusually large chemical potential shift in a degenerate semiconductor: Angle-resolved photoemission study of SnSe and Na-doped SnSe. <i>Physical Review B</i> , 2018 , 97,	3.3	9
158	Measuring nano-scale thermal conductivity. <i>National Science Review</i> , 2018 , 5, 2-2	10.8	2
157	Extraordinary thermoelectric performance in n-type manganese doped Mg3Sb2 Zintl: High band degeneracy, tuned carrier scattering mechanism and hierarchical microstructure. <i>Nano Energy</i> , 2018 , 52, 246-255	17.1	117
156	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
155	Investigations into the Surface Strain/Stress State in a Single-Crystal Superalloy via XRD Characterization. <i>Metals</i> , 2018 , 8, 376	2.3	1
154	High temperature oxidation behavior of Al0.6CrFeCoNi and Al0.6CrFeCoNiSi0.3 high entropy alloys. Journal of Alloys and Compounds, 2018 , 764, 845-852	5.7	44
153	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
152	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, 248	6 ³ 2495	129
151	Influence of defects on the thermoelectricity in SnSe: A comprehensive theoretical study. <i>Physical Review B</i> , 2018 , 97,	3.3	33
150	Homologous layered InFeO3(ZnO) m: new promising abradable seal coating materials. <i>Rare Metals</i> , 2018 , 37, 79-94	5.5	20
149	Attempting to realize n-type BiCuSeO. Journal of Solid State Chemistry, 2018, 258, 510-516	3.3	22
148	Highly-anisotropic optical and electrical properties in layered SnSe. Nano Research, 2018, 11, 554-564	10	77
147	Large enhancement of electrical transport properties of SnS in the out-of-plane direction by n-type doping: a combined ARPES and DFT study. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24588-24594	13	12
146	Effect of Heat Treatment on the Phase Composition, Microstructure and Mechanical Properties of Al0.6CrFeCoNi and Al0.6CrFeCoNiSi0.3 High-Entropy Alloys. <i>Metals</i> , 2018 , 8, 974	2.3	5
145	Investigations on electrical and thermal transport properties of Cu2SnSe3 with unusual coexisting nanophases. <i>Materials Today Physics</i> , 2018 , 7, 77-88	8	17
144	The Atomic Circus: Small Electron Beams Spotlight Advanced Materials Down to the Atomic Scale. <i>Advanced Materials</i> , 2018 , 30, e1802402	24	26
143	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

(2017-2018)

142	Charge and phonon transport in PbTe-based thermoelectric materials. <i>Npj Quantum Materials</i> , 2018 , 3,	5	131
141	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
140	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
139	Synergistically optimizing electrical and thermal transport properties of n -type PbSe. <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 275-280	3.6	5
138	Excellent ZT achieved in Cu1.8S thermoelectric alloys through introducing rare-earth trichlorides. Journal of Materials Chemistry A, 2018 , 6, 14440-14448	13	23
137	Effect of long-term heat-treatment at 1150 °C on the microstructure and properties of thermal barrier coatings based on ZrO 2 · mol.% Y 2 O 3 · mol.% Gd 2 O 3 · mol.% Yb 2 O 3 · Surface and Coatings Technology, 2017, 318, 142-146	4.4	9
136	Understanding Phonon Scattering by Nanoprecipitates in Potassium-Doped Lead Chalcogenides. <i>ACS Applied Materials & Doped Lead Chalcogenides</i> . 3686-3693	9.5	4
135	Thermoelectric transport properties of polycrystalline SnSe alloyed with PbSe. <i>Applied Physics Letters</i> , 2017 , 110, 053901	3.4	44
134	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
133	Thermoelectric transport properties of BaBiTe 3 -based materials. <i>Journal of Solid State Chemistry</i> , 2017 , 249, 131-135	3.3	3
132	Improvements of thermoelectric properties for p-type Cu1.8S bulk materials via optimizing the mechanical alloying process. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1192-1199	6.8	18
131	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
130	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
129	Analysis of Nanoprecipitates in a Na-Doped PbTe-SrTe Thermoelectric Material with a High Figure of Merit. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 1797 (2017) 1797 (20	9.5	41
128	Record high thermoelectric performance in bulk SrTiO3 via nano-scale modulation doping. <i>Nano Energy</i> , 2017 , 35, 387-395	17.1	85
127	Effective dopants in p-type elementary Te thermoelectrics. <i>RSC Advances</i> , 2017 , 7, 17682-17688	3.7	20
126	Direct observation of vast off-stoichiometric defects in single crystalline SnSe. <i>Nano Energy</i> , 2017 , 35, 321-330	17.1	80
125	Enhancing thermoelectric performance of SnTe via nanostructuring particle size. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 575-580	5.7	31

124	Effects of Sb Substitution by Sn on the Thermoelectric Properties of ZrCoSb. <i>Journal of Electronic Materials</i> , 2017 , 46, 3076-3082	1.9	17
123	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
122	Unexpected Large Hole Effective Masses in SnSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2017 , 119, 116401	7.4	37
121	Promising Thermoelectric Bulk Materials with 2D Structures. <i>Advanced Materials</i> , 2017 , 29, 1702676	24	165
120	Investigation on thermal transport and structural properties of InFeO 3 (ZnO) m with modulated layer structures. <i>Acta Materialia</i> , 2017 , 136, 235-241	8.4	9
119	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
118	Enhanced Electrical and Optoelectronic Characteristics of Few-Layer Type-II SnSe/MoS van der Waals Heterojunctions. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 42149-42155	9.5	40
117	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
116	Mercouri G. Kanatzidis: Excellence and Innovations in Inorganic and Solid-State Chemistry. <i>Inorganic Chemistry</i> , 2017 , 56, 7582-7597	5.1	3
115	Emulating Bilingual Synaptic Response Using a Junction-Based Artificial Synaptic Device. <i>ACS Nano</i> , 2017 , 11, 7156-7163	16.7	75
114	Influence of long time post annealing on thermal stability and thermophysical properties of plasma sprayed La2Zr2O7 coatings. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2549-2555	5.7	15
113	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
112	BiCuSeO Thermoelectrics: An Update on Recent Progress and Perspective. <i>Materials</i> , 2017 , 10,	3.5	59
111	Rationally Designing High-Performance Bulk Thermoelectric Materials. <i>Chemical Reviews</i> , 2016 , 116, 12123-12149	68.1	1155
110	Origin of low thermal conductivity in SnSe. <i>Physical Review B</i> , 2016 , 94,	3.3	176
109	Non-equilibrium processing leads to record high thermoelectric figure of merit in PbTe-SrTe. <i>Nature Communications</i> , 2016 , 7, 12167	17.4	377
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