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Realizing high performance n-type PbTe by synergistically optimizing effective mass and carrier mobility and suppressing bipolar thermal conductivity

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#	Paper	IF	Citations
171	Enhanced thermoelectric performance in topological crystalline insulator n-type Pb0.6Sn0.4Te by simultaneous tuning of the band gap and chemical potential. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24216-24223	13	6
170	Investigations on electrical and thermal transport properties of Cu2SnSe3 with unusual coexisting nanophases. <i>Materials Today Physics</i> , <b>2018</b> , 7, 77-88	8	17
169	The Atomic Circus: Small Electron Beams Spotlight Advanced Materials Down to the Atomic Scale. <b>2018</b> , 30, e1802402		26
168	Charge and phonon transport in PbTe-based thermoelectric materials. 2018, 3,		131
167	High-Performance n-Type PbSe-CuSe Thermoelectrics through Conduction Band Engineering and Phonon Softening. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 15535-15545	16.4	64
166	Approaching Topological Insulating States Leads to High Thermoelectric Performance in n-Type PbTe. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13097-13102	16.4	49
165	Ultrahigh Power Factor and Electron Mobility in n-Type BiTe-%Cu Stabilized under Excess Te Condition. <i>ACS Applied Materials &amp; Samp; Interfaces</i> , <b>2019</b> , 11, 30999-31008	9.5	21
164	Achieving high thermoelectric performance through constructing coherent interfaces and building interface potential barriers in n-type Bi2Te3/Bi2Te2.7Se0.3 nanocomposites. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19120-19129	13	36
163	Thermoelectric properties of Mn, Bi, and Sb co-doped SnTe with a low lattice thermal conductivity. <b>2019</b> , 806, 361-369		27
162	Thermoelectric power generation: from new materials to devices. <b>2019</b> , 377, 20180450		70
161	Multiscale Defects as Strong Phonon Scatters to Enhance Thermoelectric Performance in Mg2Sn1\( \text{\text{BSbx}} Solid Solutions. \text{ 2019}, 3, 1900412		6
160	Synergistically optimizing interdependent thermoelectric parameters of n-type PbSe through introducing a small amount of Zn. <i>Materials Today Physics</i> , <b>2019</b> , 9, 100102	8	25
159	Enhancing thermoelectric transport properties of n-type PbS through introducing CaS/SrS. <b>2019</b> , 280, 120995		11
158	Anisotropy Controllhduced Unique Anisotropic Thermoelectric Performance in the n-Type Bi2Te2.7Se0.3 Thin Films. <b>2019</b> , 3, 1900582		38
157	Understanding the effects of iodine doping on the thermoelectric performance of n-type PbTe ingot materials. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 025108	2.5	4
156	Realizing High Thermoelectric Performance in GeTe through Optimizing Ge Vacancies and Manipulating Ge Precipitates. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7594-7601	6.1	37
155	High thermoelectric performance in low-cost SnSSe crystals. <b>2019</b> , 365, 1418-1424		233

154	Thermoelectric transport properties of n-type tin sulfide. <b>2019</b> , 170, 99-105	17
153	Effectively restricting MnSi precipitates for simultaneously enhancing the Seebeck coefficient and electrical conductivity in higher manganese silicide. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 7212-7218 <sup>7.1</sup>	6
152	Microstructural Origins of High Piezoelectric Performance: A Pathway to Practical Lead-Free Materials. <b>2019</b> , 29, 1902911	30
151	Seeing atomic-scale structural origins and foreseeing new pathways to improved thermoelectric materials. <b>2019</b> , 6, 1548-1570	16
150	Synergistically optimizing interdependent thermoelectric parameters of n-type PbSe through alloying CdSe. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1969-1978	. 63
149	Realizing n-type BiCuSeO through halogens doping. <i>Ceramics International</i> , <b>2019</b> , 45, 14953-14957 5.1	7
148	The role of biaxial strain and pressure on the thermoelectric performance of SnSe2: a first principles study. <b>2019</b> , 34, 055009	7
147	Amphoteric Indium Enables Carrier Engineering to Enhance the Power Factor and Thermoelectric Performance in n-Type AgnPb100InnTe100+2n (LIST). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900414	34
146	Enhancement of thermoelectric performance of Al doped PbTe-PbSe due to carrier concentration optimization and alloying. <b>2019</b> , 791, 786-791	7
145	Thermoelectric performance of single elemental doped n-type PbTe regulated by carrier concentration. <b>2019</b> , 787, 180-185	5
144	Recent advances of n-type low-cost PbSe-based thermoelectric materials. 2019, 4, 100029	6
143	Rapid preparation of Ge0.9Sb0.1Te1+ via unique melt spinning: Hierarchical microstructure and improved thermoelectric performance. <b>2019</b> , 774, 129-136	10
142	Synergistically optimizing charge and phonon transport properties in n-type PbTe via introducing ternary compound AgSb(Se, Te)2. <b>2020</b> , 815, 152463	8
141	Preparation, Structure, and enhanced thermoelectric properties of Sm-doped BiCuSeO oxyselenide. <b>2020</b> , 185, 108263	13
140	Chalcogenide Thermoelectrics Empowered by an Unconventional Bonding Mechanism. <b>2020</b> , 30, 1904862	88
139	Discordant nature of Cd in GeTe enhances phonon scattering and improves band convergence for high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1193-1204	49
138	The high thermoelectric performance of slightly Sb doped PbTe alloys. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1679-1685	12
137	An approach of enhancing thermoelectric performance for p-type PbS: Decreasing electronic thermal conductivity. <b>2020</b> , 820, 153453	11

136	Band inversion induced multiple electronic valleys for high thermoelectric performance of SnTe with strong lattice softening. <i>Nano Energy</i> , <b>2020</b> , 69, 104395	17.1	55
135	Synergistically Enhancing Thermoelectric Performance of n-Type PbTe with Indium Doping and Sulfur Alloying. <b>2020</b> , 532, 1900421		11
134	Thermoelectric Properties of Low Te Concentration-Doped Cu2ZnSnSe4-Based Quaternary Alloys. <b>2020</b> , 217, 2000198		3
133	High Quality Factor Enabled by Multiscale Phonon Scattering for Enhancing Thermoelectrics in Low-Solubility n-Type PbTe-CuTe Alloys. <i>ACS Applied Materials &amp; Description of the Endow Science (Note: Act Applied Materials &amp; Description of the Endows Science (Note: Act Applied Materials &amp; Description of the Enhancing Thermoelectrics in Low-Solubility n-Type PbTe-CuTe Alloys. <i>ACS Applied Materials &amp; Description of the Enhancing Thermoelectrics in Computation of the Enhancing Thermoelectrics of the Enhancing Thermoelectrics in Computation of the Enhancing Thermoelectrics of the Enhancing </i></i>	9.5	6
132	Thermoelectric performance in pseudo-ternary (PbTe)0.95-x(Sb2Se3)x(PbS)0.05 system with ultra-low thermal conductivity via multi-scale phonon scattering. <b>2020</b> , 20, 1008-1012		2
131	Origins of the enhanced thermoelectric performance for p-type Ge1-xPbxTe alloys. <b>2020</b> , 596, 412397		6
130	Exceptionally High Average Power Factor and Thermoelectric Figure of Merit in n-type PbSe by the Dual Incorporation of Cu and Te. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 15172-15186	16.4	26
129	Optimized Strategies for Advancing n-Type PbTe Thermoelectrics: A Review. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2020</b> , 12, 49323-49334	9.5	17
128	From Dislocation to Nano-Precipitation: Evolution to Low Thermal Conductivity and High Thermoelectric Performance in n-Type PbTe. <b>2020</b> , 30, 2005479		20
127	Highly efficient n-type PbTe developed by advanced electronic structure engineering. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13270-13285	7.1	16
126	High Thermoelectric Performance of AgSbPbSe Prepared by Fast Nonequilibrium Synthesis. <i>ACS Applied Materials &amp; District Applied &amp; District App</i>	9.5	4
125	Phonon and Carrier Transport Properties in Low-Cost and Environmentally Friendly SnS2: A Promising Thermoelectric Material. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 10348-10356	9.6	7
124	Investigation on carrier mobility when comparing nanostructures and bands manipulation. <b>2020</b> , 12, 12741-12747		9
123	Thermoelectric transport properties of PbS and its contrasting electronic band structures. <b>2020</b> , 185, 76-81		4
122	Synchronized enhancement of thermoelectric properties of higher manganese silicide by introducing Fe and Co nanoparticles. <i>Nano Energy</i> , <b>2020</b> , 72, 104698	17.1	12
121	Synergistic modulation of power factor and thermal conductivity in Cu3SbSe4 towards high thermoelectric performance. <i>Nano Energy</i> , <b>2020</b> , 71, 104658	17.1	18
120	Trace bismuth and iodine co-doping enhanced thermoelectric performance of PbTe alloys. <b>2020</b> , 53, 245501		21
119	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> , <b>2020</b> , 8, 5699-5708	13	12

118	Origin of functionality for functional materials at atomic scale. <b>2020</b> , 1, 183-199	6
117	Nanoscale defect structures advancing high performance n-type PbSe thermoelectrics. <b>2020</b> , 421, 213437	19
116	Enhancing thermoelectric performance of n-type PbTe through separately optimizing phonon and charge transport properties. <b>2020</b> , 828, 154377	7
115	Promising and Eco-Friendly Cu X-Based Thermoelectric Materials: Progress and Applications. <b>2020</b> , 32, e1905703	92
114	Carrier mobility does matter for enhancing thermoelectric performance. <b>2020</b> , 8, 010901	27
113	Band Sharpening and Band Alignment Enable High Quality Factor to Enhance Thermoelectric Performance in -Type PbS. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 4051-4060	71
112	Band Engineering for Realizing Large Effective Mass in Cu3SbSe4 by Sn/La Codoping. <b>2020</b> , 124, 10336-10343	10
111	Bi8Se9: Effective Reduction of Bipolar Diffusion via Increasing Band Gap. <b>2020</b> , 20, 3555-3560	7
110	Electronic structure modulation strategies in high-performance thermoelectrics. 2020, 8, 040910	28
109	Boosting thermoelectric performance of n-type PbS through synergistically integrating In resonant level and Cu dynamic doping. <b>2021</b> , 148, 109640	10
108	Realizing widespread resonance effects to enhance thermoelectric performance of SnTe. <b>2021</b> , 852, 156989	2
107	Compositional Fluctuations Locked by Athermal Transformation Yielding High Thermoelectric Performance in GeTe. <b>2021</b> , 33, e2005612	22
106	Realizing ultralow thermal conductivity in Cu3SbSe4 via all-scale phonon scattering by co-constructing multiscale heterostructure and IIIB element doping. <i>Materials Today Energy</i> , <b>2021</b> , 7 19, 100620	6
105	Thermoelectric Transport Characteristics of n-type (PbTe)1-x-y(PbS)x(Sb2Se3)y Systems via Stepwise Addition of Dual Components. <b>2021</b> , 36, 936	Ο
104	Boosting the thermoelectric performance of GeTe by manipulating the phase transition temperature via Sb doping. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 6484-6490	6
103	Materials development and module fabrication in highly efficient lead tellurides. 2021, 247-267	
102	Thermodynamic criterions of the thermoelectric performance enhancement in Mg2Sn through the self-compensation vacancy. <i>Materials Today Physics</i> , <b>2021</b> , 16, 100327	13
101	Hierarchical structures lead to high thermoelectric performance in Cum+nPb100SbmTe100Se2m (CLAST). Energy and Environmental Science, <b>2021</b> , 14, 451-461	22

100	Dissociation of GaSb in n-Type PbTe: off-Centered Gallium Atom and Weak Electron <b>P</b> honon Coupling Provide High Thermoelectric Performance. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1842-1851	9.6	11
99	Exploring a Superlattice of SnO-PbO: A New Material for Thermoelectric Applications. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2081-2090	6.1	2
98	Discordant Gd and Electronic Band Flattening Synergistically Induce High Thermoelectric Performance in n-type PbTe. 1625-1632		14
97	Realizing ranged performance in SnTe through integrating bands convergence and DOS distortion. <b>2021</b> , 8, 184-184		1
96	Carrier and phonon transport control by domain engineering for high-performance transparent thin film thermoelectric generator. <b>2021</b> , 118, 151601		9
95	Mobility Ratio as a Probe for Guiding Discovery of Thermoelectric Materials: The Case of Half-Heusler Phase ScNiSb1⊠Tex. <b>2021</b> , 15,		3
94	Medium Entropy-Enabled High Performance Cubic GeTe Thermoelectrics. 2021, 8, 2100220		14
93	Eliciting High-Performance Thermoelectric Materials via Phase Diagram Engineering: A Review. <b>2021</b> , 2, 2100054		1
92	Progress in the Research on Promising High-Performance Thermoelectric Materials. <b>2021</b> , 16, 268-281		2
91	Mechanisms of Heat Transfer in Thermoelectric Materials. <b>2021</b> , 16, 308-315		1
90	Engineering Electronic Structure and Lattice Dynamics to Achieve Enhanced Thermoelectric Performance of MnBb Co-Doped GeTe. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 3611-3620	9.6	12
89	Contrasting Thermoelectric Transport Properties of n-Type PbS Induced by Adding Ni and Zn. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 6284-6289	6.1	O
88	Enhanced Thermoelectric Properties of Graphene/Cu3SbSe4 Composites. 2021, 50, 4880-4886		0
87	Contrasting Cu Roles Lead to High Ranged Thermoelectric Performance of PbS. <b>2021</b> , 31, 2102185		14
86	Review of Thermoelectric Generators at Low Operating Temperatures: Working Principles and Materials. <b>2021</b> , 12,		2
85	Low carrier concentration leads to high in-plane thermoelectric performance in n-type SnS crystals. 1		3
84	Dynamic carrier transports and low thermal conductivity in n-type layered InSe thermoelectrics. <b>2021</b> , 2, e92		2
83	Realizing N-type SnTe Thermoelectrics with Competitive Performance through Suppressing Sn Vacancies. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 8538-8542	16.4	12

82	An Update Review on -Type Layered Oxyselenide Thermoelectric Materials. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
81	First principles investigation of intrinsic and Na defects in XTe (X=Ca, Sr, Ba) nanostructured PbTe. <i>Materials Today Physics</i> , <b>2021</b> , 19, 100415	8	3
80	Thermoelectric properties of Spark plasma sintered PbTe synthesized without any surfactant and organic solvent. <b>2021</b> , 8, 075004		0
79	Structural and thermoelectric properties of GdxSr2-xCoO4 layered perovskites. <i>Ceramics International</i> , <b>2021</b> , 47, 19835-19842	5.1	2
78	High thermoelectric performance enabled by convergence of nested conduction bands in PbBiSe with low thermal conductivity. <b>2021</b> , 12, 4793		15
77	Enhancing the figure of merit of n-type PbTe materials through multi-scale graphene induced interfacial engineering. <b>2021</b> , 39, 101176		4
76	Revisiting the thermoelectric properties of lead telluride. <i>Materials Today Energy</i> , <b>2021</b> , 21, 100713	7	13
75	Anisotropic thermoelectric transport properties in polycrystalline SnSe2 *. <b>2021</b> , 30, 067101		1
74	Understanding bipolar thermal conductivity in terms of concentration ratio of minority to majority carriers. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 14, 639-646	5.5	О
73	Enhancing thermoelectric performance of n-type Bi6Cu2Se4O6 through introducing transition metal elements. <b>2021</b> , 202, 114010		4
72	Thermoelectric properties of efficient thermoelectric materials on the basis of bismuth and antimony chalcogenides for multisection thermoelements. <b>2021</b> , 877, 160328		1
71	Band convergence and nanostructure modulations lead to high thermoelectric performance in SnPb0.04Te-y% AgSbTe2. <i>Materials Today Physics</i> , <b>2021</b> , 21, 100505	8	7
70	Achieving high-performance n-type PbTe via synergistically optimizing effective mass and carrier concentration and suppressing lattice thermal conductivity. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 132601	14.7	8
69	Rationally optimized carrier effective mass and carrier density leads to high average ZT value in n-type PbSe. <i>Journal of Materials Chemistry A</i> ,	13	5
68	Synergistic Strategies to Boost Lead Telluride as Prospective Thermoelectrics. <b>2021</b> , 155-189		1
67	Thermoelectric Performance of Rapidly Microwave-Synthesized ⊞MgAgSb with SnTe Nanoinclusions. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2421-2430	9.6	14
66	Synergistic tuning of carrier mobility, effective mass, and point defects scattering triggered high thermoelectric performance in n-type Ge-doped PbTe. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 055104	2.5	3
65	Effect of Cu/In Doping on the Thermoelectric Transport Properties of Bi-Sb-Te Alloys. <i>Journal of Korean Institute of Metals and Materials</i> , <b>2019</b> , 57, 673-678	1	6

64 Evaluation on the Thermoelectric Cooling Ability of PbTe. ACS Applied Energy Materials, 2021, 4, 11813-16.818 o

63	Enhancing Thermoelectrics for Small-Bandwidth n-Type PbTe-MnTe Alloys via Balancing Compromise. ACS Applied Materials & amp; Interfaces, 2021,	9.5	1
62	Enhancement of the thermoelectric performance of nBype Bi2O2Se by Ce4+ doping. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 4161-4172	5.5	4
61	Strained Endotaxial PbS Nanoprecipitates Boosting Ultrahigh Thermoelectric Quality Factor in n-Type PbTe As-Cast Ingots. <i>Small</i> , <b>2021</b> , e2104496	11	7
60	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu2SnSe3. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100661	21.8	11
59	Contrasting Thermoelectric Transport Behaviors of -Type PbS Caused by Doping Alkali Metals (Li and Na). <i>Research</i> , <b>2020</b> , 2020, 4084532	7.8	O
58	Performance Optimization for PbTe-Based Thermoelectric Materials. <i>Frontiers in Energy Research</i> , 9,	3.8	0
57	High-performance in n-type PbTe-based thermoelectric materials achieved by synergistically dynamic doping and energy filtering. <i>Nano Energy</i> , <b>2022</b> , 91, 106706	17.1	14
56	Ultra-flexible ECu2-Be-based p-type printed thermoelectric films. <i>Applied Materials Today</i> , <b>2021</b> , 26, 101269	6.6	5
55	Strategies for boosting thermoelectric performance of PbSe: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133699	14.7	4
54	Unusually high Seebeck coefficient arising from temperature-dependent carrier concentration in PbSeAgSbSe2 alloys. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 17365-17370	7.1	1
53	High Thermoelectric Performance Achieved in Sb-Doped GeTe by Manipulating Carrier Concentration and Nanoscale Twin Grains <i>Materials</i> , <b>2022</b> , 15,	3.5	O
52	Key properties of inorganic thermoelectric materials Itables (version 1). JPhys Energy,	4.9	7
51	Outstanding CdSe with Multiple Functions Leads to High Performance of GeTe Thermoelectrics.  Advanced Energy Materials, 2103779	21.8	3
50	Seeing Structural Mechanisms of Optimized Piezoelectric and Thermoelectric Bulk Materials through Structural Defect Engineering <i>Materials</i> , <b>2022</b> , 15,	3.5	О
49	Off-Centered Pb Interstitials in PbTe <i>Materials</i> , <b>2022</b> , 15,	3.5	
48	Realizing high thermoelectric performance in non-nanostructured n-type PbTe. <i>Energy and Environmental Science</i> ,	35.4	8
47	Thermoelectric Transport Properties of N-Type Layered Homologous (Bi2)M(Bi2se3)N Compounds. SSRN Electronic Journal,	1	

46	Achieving ultralow lattice thermal conductivity and improved thermoelectric performance in BiSe by doping. <i>Journal of the European Ceramic Society</i> , <b>2022</b> ,	6	О
45	Recent advances in thermoelectric technology to harvest energy from the pavement. <i>International Journal of Energy Research</i> ,	4.5	О
44	Synergistically Enhanced Thermoelectric Properties in n-Type Bi6Cu2Se4O6 through Inducing Resonant Levels. <i>Acta Materialia</i> , <b>2022</b> , 117930	8.4	1
43	Phase boundary mapping and suppressing Pb vacancies for enhanced thermoelectric properties in n-type Sb doped PbTe compounds. <i>Materials Today Energy</i> , <b>2022</b> , 25, 100962	7	1
42	Enhanced thermoelectric performance of n-type Nb-doped PbTe by compensating resonant level and inducing atomic disorder. <i>Materials Today Physics</i> , <b>2022</b> , 24, 100677	8	3
41	Routes to High-Ranged Thermoelectric Performance. 1,		О
40	High Thermoelectric Performance in Chalcopyrite CuAgGaTe-ZnTe: Nontrivial Band Structure and Dynamic Doping Effect <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	5
39	Enhancing transparent thermoelectric properties of Sb-doped ZnO thin films via controlled deposition temperature. <i>Vacuum</i> , <b>2022</b> , 202, 111137	3.7	1
38	Influence of SiC dispersion and Ba(Sr) substitution on the thermoelectric properties of Ca3Co4O9+[] Ceramics International, 2022,	5.1	О
37	Significantly enhanced thermoelectric figure of merit of n-type Mg3Sb2-based Zintl phase compounds via co-doped of Mg and Sb site. <i>Materials Today Physics</i> , <b>2022</b> , 26, 100721	8	О
36	Effects of Bi2Te3 doping on the thermoelectric properties of Cu2Se alloys. <i>Applied Physics A: Materials Science and Processing</i> , <b>2022</b> , 128,	2.6	0
35	Unravelling the thermoelectric properties and suppression of bipolar effect under strain engineering for the asymmetric Janus SnSSe and PbSSe monolayers. <i>Applied Surface Science</i> , <b>2022</b> , 599, 153962	6.7	2
34	Y2Ti2O5S2 <b>(a)</b> promising n-type oxysulphide for thermoelectric applications. <i>Journal of Materials Chemistry A</i> ,	13	1
33	Avoiding Oxygen induced Pb vacancies for High Thermoelectric Performance of n-type Bi-doped Pb1-xBixTe Compounds. <i>Materials Today Physics</i> , <b>2022</b> , 100781	8	1
32	Enabling High Quality Factor and Enhanced Thermoelectric Performance in BiBr3-Doped Sn0.93Mn0.1Te via Band Convergence and Band Sharpening. <i>ACS Applied Materials &amp; amp; Interfaces</i> ,	9.5	0
31	Percolation Process-Mediated Rich Defects in Hole-Doped PbSe with Enhanced Thermoelectric Performance. <i>Chemistry of Materials</i> ,	9.6	1
30	Processing High-Performance Thermoelectric Materials in a Green Way: A Proof of Concept in Cold Sintered PbTe0.94Se0.06. <b>2022</b> , 14, 37937-37946		1
29	Dramatic Enhancement of Thermoelectric Performance in PbTe by Unconventional Grain Shrinking in the Sintering Process. 2202949		Ο

28	Identifying polymorphic lattice positioning of copper and the effects on the thermoelectric performance of ELAST. <b>2022</b> , 27, 100833	0
27	Thermoelectric transport properties of n-type layered homologous (Bi2)m(Bi2Se3)n compounds. <b>2022</b> , 928, 167206	O
26	Gigantic Effect due to Phase Transition on Thermoelectric Properties of Ionic Sol <b>©</b> el Materials. 2208286	1
25	Tunable quantum gaps to decouple carrier and phonon transport leading to high-performance thermoelectrics. <b>2022</b> , 13,	3
24	Vacancy-induced heterogeneity for regulating thermoelectrics in n-type PbTe. 2022, 121, 122101	O
23	Chromium ditelluride monolayer: A novel promising 2H phase thermoelectric material with direct bandgap and ultralow lattice thermal conductivity. <b>2022</b> , 167485	1
22	Coupling modification of Fermi level, band flattening and lattice defects to approach outstanding thermoelectric performance of ZnO films via tuning In and Ga incorporation. <b>2022</b> , 241, 118415	О
21	Improving the thermoelectric performance of Cu-doped MoS2 film by band structure modification and microstructural regulation. <b>2023</b> , 611, 155611	О
20	Advances in Versatile GeTe Thermoelectrics from Materials to Devices. 2208272	O
19	Weak Electron <b>P</b> honon Coupling and Enhanced Thermoelectric Performance in n-type PbTe <b>I</b> Iu 2 Se via Dynamic Phase Conversion. 2203325	2
18	Rare earth free oxide nano-composite of SrTi0.85Nb0.15O3 and CNT for potential n-type thermoelectrics. <b>2023</b> , 202, 207-213	O
17	High-performance thermoelectrics in two-dimensional layered AB2Te4(A=Sn, Pb; B=Sb, Bi) ternary compounds.	1
16	Stacking pattern induced high ZTs in monolayer SnSSe and bilayer SnXY (X/YI=IS, Se) materials with strong anharmonic phonon scattering. <b>2023</b> , 455, 140832	1
15	Extraordinary role of resonant dopant vanadium for improving thermoelectrics in n-type PbTe. <b>2023</b> , 30, 100955	O
14	Thermoelectric properties in nano Y2O3 dispersed Cu2Se. <b>2022</b> , 128,	O
13	Vacancy controlled n-p conduction type transition in CuAgSe with superior thermoelectric performance.	O
12	Theoretical Prediction of Thermoelectric Performance for Layered LaAgOX (X = S, Se) Materials in Consideration of the Four-Phonon and Multiple Carrier Scattering Processes. 2201368	0
11	Structural-functional unit ordering for high-performance electron-correlated materials.	O

## CITATION REPORT

10	Fine Tuning of Defects Enables High Carrier Mobility and Enhanced Thermoelectric Performance of n-Type PbTe.	O
9	Enhanced thermoelectric power factor of Se-doped SnS nanostructures for flexible thermoelectric applications. <b>2023</b> , 34,	0
8	Optimizing thermoelectric performance of SnTe via alloying with AgSnSe2 and PbTe. 2023, 947, 169415	0
7	Strategies to advance earth-abundant PbS thermoelectric. <b>2023</b> , 465, 142785	O
6	Unraveling the structural details and thermoelectric transports of 2D-3D hetero-structure composites. <b>2023</b> , 32, 101018	0
5	Synergistic band modulation and precipitates: Achieving high quality factor in SnTe. <b>2023</b> , 122, 072102	O
4	Enhanced Thermoelectric Performance of n-Type PbTe via Carrier Concentration Optimization over a Broad Temperature Range.	0
3	Doping by Design: Enhanced Thermoelectric Performance of GeSe Alloys Through Metavalent Bonding.	O
2	Enhancing thermoelectric performance of n-type AgBi3S5 through synergistically optimizing the effective mass and carrier mobility. <b>2023</b> ,	0
1	Effect of crystal field engineering and Fermi level optimization on thermoelectric properties of Ge1.01Te: Experimental investigation and theoretical insight. <b>2023</b> , 7,	O