

Yan-Zhong Pei

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.

148
papers

17,235
citations

62
h-index

131
g-index

154
ext. papers

20,095
ext. citations

14
avg, IF

7.03
L-index

#	Paper	IF	Citations
148	 Ge _{0.86} Pb _{0.1} Bi _{0.04} Te. <i>Fizika i Tekhnika Poluprovodnikov</i> , 2022 , 56, 261	0	0
147	Ultralow lattice thermal conductivity enables high thermoelectric performance in BaAg ₂ Te ₂ alloys. <i>Materials Today Physics</i> , 2022 , 22, 100591	8	3
146	A record thermoelectric efficiency in tellurium-free modules for low-grade waste heat recovery.. <i>Nature Communications</i> , 2022 , 13, 237	17.4	13
145	Individualization of optimal operation currents for promoting multi-stage thermoelectric cooling. <i>Materials Today Physics</i> , 2022 , 100746	8	0
144	An over 10% module efficiency obtained using non-Bi ₂ Te ₃ thermoelectric materials for recovering heat of . <i>Energy and Environmental Science</i> , 2021 , 14, 6506-6513	35.4	13
143	Substitutions and dislocations enabled extraordinary n-type thermoelectric PbTe. <i>Materials Today Physics</i> , 2021 , 17, 100355	8	23
142	Parallel Dislocation Networks and Cottrell Atmospheres Reduce Thermal Conductivity of PbTe Thermoelectrics. <i>Advanced Functional Materials</i> , 2021 , 31, 2101214	15.6	15
141	Manipulation of Defects for High-Performance Thermoelectric PbTe-Based Alloys. <i>Small Structures</i> , 2021 , 2, 2100016	8.7	4
140	Enhanced Thermoelectric Performance in Ge Sb Te/FeGe Composites Enabled by Hierarchical Defects. <i>Small</i> , 2021 , 17, e2100915	11	0
139	Realizing a 14% single-leg thermoelectric efficiency in GeTe alloys. <i>Science Advances</i> , 2021 , 7,	14.3	38
138	Compromise between band structure and phonon scattering in efficient n-Mg ₃ Sb _{2-x} Bix thermoelectrics. <i>Materials Today Physics</i> , 2021 , 18, 100362	8	15
137	Leveraging bipolar effect to enhance transverse thermoelectricity in semimetal MgPb for cryogenic heat pumping. <i>Nature Communications</i> , 2021 , 12, 3837	17.4	6
136	Soft-mode dynamics in the ferroelectric phase transition of GeTe. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	1
135	Thermoelectric Transport Properties of TmAg Cu ₁ -Te ₂ solid solutions. <i>Journal of Materiomics</i> , 2021 , 7, 886-893	6.7	0
134	Thermally insulative thermoelectric argyrodites. <i>Materials Today</i> , 2021 , 48, 198-198	21.8	10
133	Wearable Thermoelectric Materials and Devices for Self-Powered Electronic Systems. <i>Advanced Materials</i> , 2021 , 33, e2102990	24	49
132	Nearly isotropic transport properties in anisotropically structured n-type single-crystalline Mg ₃ Sb ₂ . <i>Materials Today Physics</i> , 2021 , 21, 100508	8	4

131	Ultralow and glass-like lattice thermal conductivity in crystalline BaAg ₂ Te ₂ : Strong fourth-order anharmonicity and crucial diffusive thermal transport. <i>Materials Today Physics</i> , 2021 , 21, 100487	8	4
130	Thermoelectric Enhancements in PbTe Alloys Due to Dislocation-Induced Strains and Converged Bands. <i>Advanced Science</i> , 2020 , 7, 1902628	13.6	39
129	Na-doping enables both dislocations and holes in EuMg ₂ Sb ₂ for thermoelectric enhancements. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8345-8351	13	13
128	Atomic disordering advances thermoelectric group IV telluride alloys with a multiband transport. <i>Materials Today Physics</i> , 2020 , 15, 100247	8	17
127	Cu Interstitials Enable Carriers and Dislocations for Thermoelectric Enhancements in n-PbTe _{0.75} Se _{0.25} . <i>CheM</i> , 2020 , 6, 523-537	16.2	33
126	Evaluation of Thermoelectric Properties of Ag _{0.366} Sb _{0.558} Te. <i>Annalen Der Physik</i> , 2020 , 532, 1900561	2.6	1
125	Thermoelectric properties of Cu ₄ Ge ₃ Se ₅ with an intrinsic disordered zinc blende structure. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3431-3437	13	6
124	Thermoelectric p-Type Ag ₉ GaTe ₆ with an Intrinsically Low Lattice Thermal Conductivity. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1892-1898	6.1	10
123	GeTe Thermoelectrics. <i>Joule</i> , 2020 , 4, 986-1003	27.8	89
122	Manipulation of Band Degeneracy and Lattice Strain for Extraordinary PbTe Thermoelectrics. <i>Research</i> , 2020 , 2020, 8151059	7.8	13
121	Ternary thermoelectric AB ₂ C ₂ Zintl. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153497	5.7	11
120	Near-room-temperature rhombohedral Ge ₁ -Pb Te thermoelectrics. <i>Materials Today Physics</i> , 2020 , 15, 100260	8	14
119	Electronic quality factor for thermoelectrics. <i>Science Advances</i> , 2020 , 6,	14.3	49
118	Dynamic disorder phonon scattering mediated by Cu atomic hopping and diffusion in Cu ₃ SbSe ₃ . <i>Npj Computational Materials</i> , 2020 , 6,	10.9	2
117	Revealing the origin of dislocations in PbSbSe (0 Nanoscale, 2020 , 12, 19165-19169	7.7	3
116	Spark Plasma Sintered Bulk Nanocomposites of BiTeSe Nanoplates Incorporated Ni Nanoparticles with Enhanced Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31816-31823	8.5	13
115	Dilute Cu ₂ Te-alloying enables extraordinary performance of r-GeTe thermoelectrics. <i>Materials Today Physics</i> , 2019 , 9, 100096	8	52
114	Alloying for orbital alignment enables thermoelectric enhancement of EuCd ₂ Sb ₂ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12773-12778	13	25

113	Anharmonic lattice dynamics of Te and its counter-intuitive strain dependent lattice thermal conductivity. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5970-5974	7.1	6
112	Fabrication and Thermoelectric Properties of Single-Crystal Argyrodite Ag ₈ SnSe ₆ . <i>Chemistry of Materials</i> , 2019 , 31, 2603-2610	9.6	18
111	Lattice Strain Advances Thermoelectrics. <i>Joule</i> , 2019 , 3, 1276-1288	27.8	204
110	Lattice Softening Significantly Reduces Thermal Conductivity and Leads to High Thermoelectric Efficiency. <i>Advanced Materials</i> , 2019 , 31, e1900108	24	91
109	Maximization of transporting bands for high-performance SnTe alloy thermoelectrics. <i>Materials Today Physics</i> , 2019 , 9, 100091	8	34
108	Experimental revelation of multiband transport in heavily doped BaCd ₂ Sb ₂ with promising thermoelectric performance. <i>Materials Today Physics</i> , 2019 , 8, 123-127	8	18
107	Promising cubic MnGeTe ₂ thermoelectrics. <i>Science China Materials</i> , 2019 , 62, 379-388	7.1	7
106	Realization of higher thermoelectric performance by dynamic doping of copper in n-type PbTe. <i>Energy and Environmental Science</i> , 2019 , 12, 3089-3098	35.4	73
105	Revelation of Inherently High Mobility Enables MgSb as a Sustainable Alternative to n-BiTe Thermoelectrics. <i>Advanced Science</i> , 2019 , 6, 1802286	13.6	40
104	Transport Properties of CdSb Alloys with a Promising Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27098-27103	9.5	6
103	Extraordinary n-Type Mg SbBi Thermoelectrics Enabled by Yttrium Doping. <i>Advanced Materials</i> , 2019 , 31, e1903387	24	74
102	Solute manipulation enabled band and defect engineering for thermoelectric enhancements of SnTe. <i>Information Materials</i> , 2019 , 1, 571-581	23.1	23
101	Design of High-Performance Disordered Half-Heusler Thermoelectric Materials Using 18-Electron Rule. <i>Advanced Functional Materials</i> , 2019 , 29, 1905044	15.6	38
100	Efficient Sc-Doped Mg _{3.05} ScxSbBi Thermoelectrics Near Room Temperature. <i>Chemistry of Materials</i> , 2019 , 31, 8987-8994	9.6	30
99	Lead Chalcogenide Thermoelectric Materials 2019 , 83-104		0
98	SnTe-Based Thermoelectrics 2019 , 63-81		
97	Texturization-Induced In-Plane High-Performance Thermoelectrics and Inapplicability of the Debye Model to Out-of-Plane Lattice Thermal Conductivity in Misfit-Layered Chalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48079-48085	9.5	9
96	One-Order Decreased Lattice Thermal Conductivity of SnSe Crystals by the Introduction of Nanometer SnSe ₂ Secondary Phase. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27666-27671	3.8	5

95	Editorial for rare metals, special issue on advanced thermoelectric materials. <i>Rare Metals</i> , 2018 , 37, 257-358	358	5
94	MnTe ₂ as a novel promising thermoelectric material. <i>Journal of Materiomics</i> , 2018 , 4, 215-220	6.7	9
93	Crystal Structure Induced Ultralow Lattice Thermal Conductivity in Thermoelectric Ag ₉ AlSe ₆ . <i>Advanced Energy Materials</i> , 2018 , 8, 1800030	21.8	64
92	Manipulation of Phonon Transport in Thermoelectrics. <i>Advanced Materials</i> , 2018 , 30, e1705617	24	199
91	Charge Transport in Thermoelectric SnSe Single Crystals. <i>ACS Energy Letters</i> , 2018 , 3, 689-694	20.1	30
90	Boosting the thermoelectric performance of PbSe through dynamic doping and hierarchical phonon scattering. <i>Energy and Environmental Science</i> , 2018 , 11, 1848-1858	35.4	112
89	Low-Symmetry Rhombohedral GeTe Thermoelectrics. <i>Joule</i> , 2018 , 2, 976-987	27.8	275
88	Advances in Thermoelectric Mg ₃ Sb ₂ and Its Derivatives. <i>Small Methods</i> , 2018 , 2, 1800022	12.8	34
87	Orbital Alignment for High Performance Thermoelectric YbCd ₂ Sb ₂ Alloys. <i>Chemistry of Materials</i> , 2018 , 30, 5339-5345	9.6	37
86	Manipulation of Solubility and Interstitial Defects for Improving Thermoelectric SnTe Alloys. <i>ACS Energy Letters</i> , 2018 , 3, 1969-1974	20.1	51
85	Vacancy Manipulation for Thermoelectric Enhancements in GeTe Alloys. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15883-15888	16.4	132
84	Rationalizing phonon dispersion for lattice thermal conductivity of solids. <i>National Science Review</i> , 2018 , 5, 888-894	10.8	95
83	Thermoelectric properties of Ag ₉ Ga ₆ S ₆ with ultralow lattice thermal conductivity. <i>Materials Today Physics</i> , 2018 , 6, 60-67	8	28
82	High-Performance GeTe Thermoelectrics in Both Rhombohedral and Cubic Phases. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16190-16197	16.4	76
81	Thermoelectric Transport Properties of Cd Bi GeTe Alloys. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39904-39911	9.5	35
80	Manipulation of Band Structure and Interstitial Defects for Improving Thermoelectric SnTe. <i>Advanced Functional Materials</i> , 2018 , 28, 1803586	15.6	121
79	Interstitial Defects Improving Thermoelectric SnTe in Addition to Band Convergence. <i>ACS Energy Letters</i> , 2017 , 2, 563-568	20.1	106
78	Electronic origin of the high thermoelectric performance of GeTe among the p-type group IV monotellurides. <i>NPG Asia Materials</i> , 2017 , 9, e353-e353	10.3	172

77	Promoting SnTe as an Eco-Friendly Solution for p-PbTe Thermoelectric via Band Convergence and Interstitial Defects. <i>Advanced Materials</i> , 2017 , 29, 1605887	24	250
76	Substitutional defects enhancing thermoelectric CuGaTe ₂ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5314-5320	13	62
75	Lattice Dislocations Enhancing Thermoelectric PbTe in Addition to Band Convergence. <i>Advanced Materials</i> , 2017 , 29, 1606768	24	272
74	Engineering the Thermoelectric Transport in Half-Heusler Materials through a Bottom-Up Nanostructure Synthesis. <i>Advanced Energy Materials</i> , 2017 , 7, 1700446	21.8	40
73	Sb induces both doping and precipitation for improving the thermoelectric performance of elemental Te. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1066-1072	6.8	35
72	Realizing the High Thermoelectric Performance of GeTe by Sb-Doping and Se-Alloying. <i>Chemistry of Materials</i> , 2017 , 29, 605-611	9.6	175
71	Resonant doping in BiCuSeO thermoelectrics from first principles. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 931-936	13	10
70	Vacancy-induced dislocations within grains for high-performance PbSe thermoelectrics. <i>Nature Communications</i> , 2017 , 8, 13828	17.4	287
69	Promising thermoelectric performance in van der Waals layered SnSe ₂ . <i>Materials Today Physics</i> , 2017 , 3, 127-136	8	63
68	Simultaneous Optimization of Carrier Concentration and Alloy Scattering for Ultrahigh Performance GeTe Thermoelectrics. <i>Advanced Science</i> , 2017 , 4, 1700341	13.6	108
67	Anomalous electrical conductivity of n-type Te-doped Mg _{3.2} Sb _{1.5} Bi _{0.5} . <i>Materials Today Physics</i> , 2017 , 3, 1-6	8	67
66	Realizing high-performance thermoelectric power generation through grain boundary engineering of skutterudite-based nanocomposites. <i>Nano Energy</i> , 2017 , 41, 501-510	17.1	87
65	Promising Thermoelectric Ag ₅ Te ₃ with Intrinsic Low Lattice Thermal Conductivity. <i>ACS Energy Letters</i> , 2017 , 2, 2470-2477	20.1	38
64	High Thermoelectric Performance of Ag ₉ GaSe ₆ Enabled by Low Cutoff Frequency of Acoustic Phonons. <i>Joule</i> , 2017 , 1, 816-830	27.8	142
63	Tellurium doped n-type Zintl Zr ₃ Ni ₃ Sb ₄ thermoelectric materials: Balance between carrier-scattering mechanism and bipolar effect. <i>Materials Today Physics</i> , 2017 , 2, 54-61	8	56
62	Manipulation of ionized impurity scattering for achieving high thermoelectric performance in n-type MgSb-based materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10548-10553	11.5	183
61	Thermoelectric Properties of SnS with Na-Doping. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34033-34041	9.3	481
60	Defect Engineering for Realizing High Thermoelectric Performance in n-Type Mg ₃ Sb ₂ -Based Materials. <i>ACS Energy Letters</i> , 2017 , 2, 2245-2250	20.1	130

59	Advances in Environment-Friendly SnTe Thermoelectrics. <i>ACS Energy Letters</i> , 2017 , 2, 2349-2355	20.1	85
58	Performance optimization and single parabolic band behavior of thermoelectric MnTe. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19143-19150	13	33
57	Single parabolic band transport in p-type EuZn ₂ Sb ₂ thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24185-24192	13	29
56	Magnetoelectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. <i>Nature Nanotechnology</i> , 2017 , 12, 55-60	28.7	155
55	Manipulation of charge transport in thermoelectrics. <i>Npj Quantum Materials</i> , 2017 , 2,	5	41
54	Thermoelectric Properties of Cu ₂ SnSe ₄ with Intrinsic Vacancy. <i>Chemistry of Materials</i> , 2016 , 28, 6227-6232	26	85
53	Thermoelectric properties of GeSe. <i>Journal of Materiomics</i> , 2016 , 2, 331-337	6.7	46
52	Limit of zT enhancement in rocksalt structured chalcogenides by band convergence. <i>Physical Review B</i> , 2016 , 94,	3.3	44
51	Interstitial Point Defect Scattering Contributing to High Thermoelectric Performance in SnTe. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600019	6.4	186
50	Tellurium as a high-performance elemental thermoelectric. <i>Nature Communications</i> , 2016 , 7, 10287	17.4	283
49	Single parabolic band behavior of thermoelectric p-type CuGaTe ₂ . <i>Journal of Materials Chemistry C</i> , 2016 , 4, 209-214	7.1	75
48	Ultrahigh power factor and thermoelectric performance in hole-doped single-crystal SnSe. <i>Science</i> , 2016 , 351, 141-4	33.3	1237
47	Thermoelectric properties of n-type Nb-doped Ag ₈ SnSe ₆ . <i>Journal of Applied Physics</i> , 2016 , 119, 135101	2.5	15
46	Thermoelectric properties of Ni-doped BaSi ₂ . <i>Functional Materials Letters</i> , 2016 , 09, 1650017	1.2	5
45	First-principles study on band structures and electrical transports of doped-SnTe. <i>Journal of Materiomics</i> , 2016 , 2, 158-164	6.7	20
44	Vacancy scattering for enhancing the thermoelectric performance of CuGaTe ₂ solid solutions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15464-15470	13	91
43	Low Sound Velocity Contributing to the High Thermoelectric Performance of AgSnSe. <i>Advanced Science</i> , 2016 , 3, 1600196	13.6	166
42	Significant band engineering effect of YbTe for high performance thermoelectric PbTe. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12410-12417	7.1	57

41	Band and scattering tuning for high performance thermoelectric Sn _{1-x} MnxTe alloys. <i>Journal of Materiomics</i> , 2015 , 1, 307-315	6.7	167
40	Origin of resistivity anomaly in p-type leads chalcogenide multiphase compounds. <i>AIP Advances</i> , 2015 , 5, 053601	1.5	8
39	Heterogeneous Distribution of Sodium for High Thermoelectric Performance of p-type Multiphase Lead-Chalcogenides. <i>Advanced Energy Materials</i> , 2015 , 5, 1501047	21.8	56
38	Improved thermoelectric performance of Nb-doped lead selenide. <i>Journal of Alloys and Compounds</i> , 2014 , 600, 91-95	5.7	17
37	Applying Quantitative Microstructure Control in Advanced Functional Composites. <i>Advanced Functional Materials</i> , 2014 , 24, 2135-2153	15.6	55
36	Optimum Carrier Concentration in n-Type PbTe Thermoelectrics. <i>Advanced Energy Materials</i> , 2014 , 4, 1400486	21.8	284
35	Thermoelectric performance of tellurium-reduced quaternary p-type lead chalcogenide composites. <i>Acta Materialia</i> , 2014 , 80, 365-372	8.4	26
34	High Band Degeneracy Contributes to High Thermoelectric Performance in p-Type Half-Heusler Compounds. <i>Advanced Energy Materials</i> , 2014 , 4, 1400600	21.8	198
33	Chemical composition tuning in quaternary p-type Pb-chalcogenides—a promising strategy for enhanced thermoelectric performance. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1835-40	3.6	46
32	Linear dependence of the Hall coefficient of 1% Na doped PbTe with varying magnetic field. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1273-1275	1.6	2
31	Rational design of p-type thermoelectric PbTe: temperature dependent sodium solubility. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8725	13	54
30	The Criteria for Beneficial Disorder in Thermoelectric Solid Solutions. <i>Advanced Functional Materials</i> , 2013 , 23, 1586-1596	15.6	252
29	Phonon scattering through a local anisotropic structural disorder in the thermoelectric solid solution Cu ₂ Zn(1-x)Fe(x)GeSe ₄ . <i>Journal of the American Chemical Society</i> , 2013 , 135, 726-32	16.4	94
28	Beneficial Contribution of Alloy Disorder to Electron and Phonon Transport in Half-Heusler Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2013 , 23, 5123-5130	15.6	290
27	Validity of rigid band approximation of PbTe thermoelectric materials. <i>APL Materials</i> , 2013 , 1, 011101	5.7	38
26	High Thermoelectric Efficiency of n-type PbS. <i>Advanced Energy Materials</i> , 2013 , 3, 488-495	21.8	149
25	Material Design Considerations Based on Thermoelectric Quality Factor. <i>Springer Series in Materials Science</i> , 2013 , 3-32	0.9	53
24	Dopants effect on the band structure of PbTe thermoelectric material. <i>Applied Physics Letters</i> , 2012 , 101, 092102	3.4	64

23	Band engineering of thermoelectric materials. <i>Advanced Materials</i> , 2012 , 24, 6125-35	24	998
22	Low effective mass leading to high thermoelectric performance. <i>Energy and Environmental Science</i> , 2012 , 5, 7963	35.4	413
21	Thermopower enhancement in $\text{Pb}_{1-x}\text{Mn}_x\text{Te}$ alloys and its effect on thermoelectric efficiency. <i>NPG Asia Materials</i> , 2012 , 4, e28-e28	10.3	195
20	Thermoelectric Materials: Band Engineering of Thermoelectric Materials (Adv. Mater. 46/2012). <i>Advanced Materials</i> , 2012 , 24, 6124-6124	24	38
19	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, 9705-9	11.5	303
18	High Thermoelectric Figure of Merit in PbTe Alloys Demonstrated in $\text{PbTe}_{1-x}\text{Te}_x$. <i>Advanced Energy Materials</i> , 2012 , 2, 670-675	21.8	208
17	Combination of large nanostructures and complex band structure for high performance thermoelectric lead telluride. <i>Energy and Environmental Science</i> , 2011 , 4, 3640	35.4	137
16	Reevaluation of $\text{PbTe}_{1-x}\text{Te}_x$ as high performance n-type thermoelectric material. <i>Energy and Environmental Science</i> , 2011 , 4, 2090	35.4	324
15	Alloying to increase the band gap for improving thermoelectric properties of Ag_2Te . <i>Journal of Materials Chemistry</i> , 2011 , 21, 18256		112
14	Convergence of electronic bands for high performance bulk thermoelectrics. <i>Nature</i> , 2011 , 473, 66-9	50.4	2611
13	Lead telluride alloy thermoelectrics. <i>Materials Today</i> , 2011 , 14, 526-532	21.8	358
12	High thermoelectric figure of merit in heavy hole dominated PbTe. <i>Energy and Environmental Science</i> , 2011 , 4, 2085	35.4	528
11	High Thermoelectric Performance in PbTe Due to Large Nanoscale Ag_2Te Precipitates and La Doping. <i>Advanced Functional Materials</i> , 2011 , 21, 241-249	15.6	424
10	Heavily doped p-type PbSe with high thermoelectric performance: an alternative for PbTe. <i>Advanced Materials</i> , 2011 , 23, 1366-70	24	392
9	Stabilizing the optimal carrier concentration for high thermoelectric efficiency. <i>Advanced Materials</i> , 2011 , 23, 5674-8	24	323
8	Self-Tuning the Carrier Concentration of PbTe/ Ag_2Te Composites with Excess Ag for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2011 , 1, 291-296	21.8	192
7	Optimized thermoelectric properties of $\text{Mo}_3\text{Sb}_7\text{Te}_x$ with significant phonon scattering by electrons. <i>Energy and Environmental Science</i> , 2011 , 4, 4086	35.4	70
6	Vacancy phonon scattering in thermoelectric $\text{In}_2\text{Te}_3\text{InSb}$ solid solutions. <i>Applied Physics Letters</i> , 2009 , 94, 122112	3.4	96

5	High thermoelectric power factor in alloys based on CoSi. <i>Applied Physics Letters</i> , 2009 , 94, 022115	3.4	32
4	High Thermoelectric Power Factor Near Room Temperature in Full-Heusler Alloys. <i>Journal of Electronic Materials</i> , 2009 , 38, 1221-1223	1.9	31
3	Effect of Ge Doping on Thermoelectric Properties of $Sr_{1-x}Co_4Sb_{12-x}Ge_x$. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 7470-7473	1.4	5
2	Thermoelectric properties of $(GeTe)_{1-x}[(Ag_2Te)_{0.4}(Sb_2Te_3)_{0.6}]_x$ alloys. <i>Rare Metals</i> , 1	5.5	1
1	Considering the Role of Ion Transport in Diffusion-Dominated Thermal Conductivity. <i>Advanced Energy Materials</i> , 2200717	21.8	5