Xianli Su

List of Publications by Year in Descending Order

137 papers	5,421 citations	38 h-index	71 g-index
148 ext. papers	6,531 ext. citations	9.6 avg, IF	5.65 L-index

#	Paper	IF	Citations
137	Phase boundary mapping and suppressing Pb vacancies for enhanced thermoelectric properties in n-type Sb doped PbTe compounds. *Materials Today Energy*, **2022**, 25, 100962	7	1
136	The role of Ge vacancies and Sb doping in GeTe: a comparative study of Thermoelectric Transport Properties in SbxGe1-1.5xTe and SbxGe1-xTe Compounds. *Materials Today Physics*, **2022**, 100682	8	1
135	Removing the Oxygen-Induced Donor-like Effect for High Thermoelectric Performance in n-Type BiTe-Based Compounds. *ACS Applied Materials & Interfaces*, **2021**,	9.5	2
134	Synergistically Enhanced Thermoelectric Performance of CuSnSe-Based Composites Ag Doping Balance. *ACS Applied Materials & Interfaces*, **2021**, 13, 55178-55187	9.5	1
133	Extremely low thermal conductivity of Ga2O3 with porous structure. *Journal of Applied Physics*, **2021**, 130, 195103	2.5	1
132	Thermal stability and Interfacial structure evolution of Bi2Te3-based micro thermoelectric devices. *Journal of Alloys and Compounds*, **2021**, 896, 163090	5.7	4
131	An Instant Change of Elastic Lattice Strain during Cu2Se Phase Transition: Origin of Abnormal Thermoelectric Properties. *Advanced Functional Materials*, **2021**, 31, 2100431	15.6	9
130	New criteria for the applicability of combustion synthesis: The investigation of thermodynamic and kinetic processes for binary Chemical Reactions. *Journal of Alloys and Compounds*, **2021**, 860, 158465	5.7	1
129	Strong Anisotropy and Bipolar Conduction-Dominated Thermoelectric Transport Properties in the Polycrystalline Topological Phase of ZrTe. *Inorganic Chemistry*, **2021**, 60, 8890-8897	5.1	3
128	Copper ion chemistry in a new rechargeable all-solid-state copper-ion battery. *Journal of Solid State Chemistry*, **2021**, 298, 122112	3.3	0
127	Enhanced thermoelectric performance of tin oxide through antimony doping and introducing pore structures. *Journal of Materials Science*, **2021**, 56, 2360-2371	4.3	3
126	Achieving superior performance in thermoelectric Bi0.4Sb1.6Te3.72 by enhancing texture and inducing high-density line defects. *Science China Materials*, **2021**, 64, 1507-1520	7.1	3
125	Atomic mechanism of ionic confinement in the thermoelectric Cu2Se based on a low-cost electric-current method. *Cell Reports Physical Science*, **2021**, 2, 100345	6.1	3
124	Structural transformation and thermoelectric performance in Ag2Te1−xSex solid solution. *Journal of Alloys and Compounds*, **2021**, 871, 159507	5.7	4
123	Regulation of Exciton for High Thermoelectric Performance in (Bi, Sb)2Te3 alloys via doping with Pb and Multi-scale Microstructure. *Journal of the European Ceramic Society*, **2021**,	6	2
122	The origin of ultra-low thermal conductivity of the Bi2Te2S compound and boosting the thermoelectric performance via carrier engineering. *Materials Today Physics*, **2021**, 20, 100472	8	3
121	Ultralow Thermal Conductivity, Multiband Electronic Structure and High Thermoelectric Figure of Merit in TlCuSe. *Advanced Materials*, **2021**, 33, e2104908	24	5

120	Mechanical Properties and Thermal Stability of the High-Thermoelectric-Performance CuSe Compound. *ACS Applied Materials & Interfaces*, **2021**, 13, 45736-45743	9.5	2
119	Zn-Induced Defect Complexity for the High Thermoelectric Performance of n-Type PbTe Compounds. *ACS Applied Materials & Interfaces*, **2021**, 13, 43134-43143	9.5	5
118	In-situ formed nano-pore induced by Ultrasonication boosts the thermoelectric performance of Cu2Se compounds. *Journal of Alloys and Compounds*, **2021**, 881, 160639	5.7	4
117	High carrier mobility and ultralow thermal conductivity in the synthetic layered superlattice Sn4Bi10Se19. *Materials Advances*, **2021**, 2, 2382-2390	3.3	4
116	Unveiling the Intrinsic Low Thermal Conductivity of BiAgSeS through Entropy Engineering in SHS Kinetic Process. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2021**, 36, 991	1	0
115	Boosting Thermoelectric Properties of AgBi(SeS) Solid Solution via Entropy Engineering. *ACS Applied Materials & Interfaces*, **2021**, 13, 4185-4191	9.5	3
114	Electroresistance in multipolar antiferroelectric CuSe semiconductor. *Nature Communications*, **2021** , 12, 7207	17.4	1
113	Significant Enhancement in the Thermoelectric Performance of Aluminum-Doped ZnO Tuned by Pore Structure. *ACS Applied Materials & Interfaces*, **2020**, 12, 51669-51678	9.5	14
112	Enhanced Thermoelectric Performance of BiSbTe Nanostructured with CdTe. *ACS Applied Materials & Interfaces*, **2020**, 12, 26330-26341	9.5	15
111	Ultralow Thermal Conductivity and Thermoelectric Properties of Rb2Bi8Se13. *Chemistry of Materials*, **2020**, 32, 3561-3569	9.6	14
110	Anomalously Large Seebeck Coefficient of CuFeS2 Derives from Large Asymmetry in the Energy Dependence of Carrier Relaxation Time. *Chemistry of Materials*, **2020**, 32, 2639-2646	9.6	16
109	Vacancy-Based Defect Regulation for High Thermoelectric Performance in GeSbTe Compounds. *ACS Applied Materials & Interfaces*, **2020**, 12, 19664-19673	9.5	24
108	Quasilinear dispersion in electronic band structure and high Seebeck coefficient in CuFeS2-based thermoelectric materials. *Physical Review Materials*, **2020**, 4,	3.2	1
107	Anisotropic thermoelectric transport properties of Bi0.5Sb1.5Te2.96+x zone melted ingots. *Journal of Solid State Chemistry*, **2020**, 288, 121433	3.3	4
106	The electronic-thermal transport properties and the exploration of magneto-thermoelectric properties and the Nernst thermopower of Ag2(1+)Se. *Journal of Solid State Chemistry*, **2020**, 288, 121453	3.3	5
105	Discordant nature of Cd in GeTe enhances phonon scattering and improves band convergence for high thermoelectric performance. *Journal of Materials Chemistry A*, **2020**, 8, 1193-1204	13	49
104	Impurity states in Mo1⊠MxSe2 compounds doped with group VB elements and their electronic and thermal transport properties. *Journal of Materials Chemistry C*, **2020**, 8, 619-629	7.1	7
103	Distinct role of Sn and Ge doping on thermoelectric properties in p-type (Bi, Sb)2Te3-alloys. *Journal of Solid State Chemistry*, **2020**, 292, 121722	3.3	9

102	Realizing High Thermoelectric Performance in Sb-Doped AgTe Compounds with a Low-Temperature Monoclinic Structure. *ACS Applied Materials & Interfaces*, **2020**, 12, 39425-39433	9.5	16
101	Blocking Ion Migration Stabilizes the High Thermoelectric Performance in Cu Se Composites. *Advanced Materials*, **2020**, 32, e2003730	24	49
100	Origin of the Distinct Thermoelectric Transport Properties of Chalcopyrite ABTe2 (A = Cu, Ag; B = Ga, In). *Advanced Functional Materials*, **2020**, 30, 2005861	15.6	21
99	Enhancing Thermoelectric Performance of n-Type PbSe through Forming Solid Solution with PbTe and PbS. *ACS Applied Energy Materials*, **2020**, 3, 2-8	6.1	21
98	High Figure of Merit in Gallium-Doped Nanostructured n-Type PbTe-GeTe with Midgap States. *Journal of the American Chemical Society*, **2019**, 141, 16169-16177	16.4	44
97	Compressive Fatigue Behavior and Its Influence on the Thermoelectric Properties of p-Type BiSbTe Alloys. *ACS Applied Materials & Interfaces*, **2019**, 11, 40091-40098	9.5	7
96	Fine-tuning the solid-state ordering and thermoelectric performance of regioregular P3HT analogues by sequential oxygen-substitution of carbon atoms along the alkyl side chains. *Journal of Materials Chemistry C*, **2019**, 7, 2333-2344	7.1	11
95	Origin of Intrinsically Low Thermal Conductivity in Talnakhite CuFeS Thermoelectric Material: Correlations between Lattice Dynamics and Thermal Transport. *Journal of the American Chemical Society*, **2019**, 141, 10905-10914	16.4	29
94	Role of Cation Vacancies in CuSnSe Thermoelectrics. *ACS Applied Materials & Interfaces*, **2019**, 11, 24212-24220	9.5	16
93	Synergistically Improved Electronic and Thermal Transport Properties in Nb-Doped NbMoSeTe Solid Solutions Due to Alloy Phonon Scattering and Increased Valley Degeneracy. *ACS Applied Materials & Interfaces*, **2019**, 11, 26069-26081	9.5	9
92	One-step ultra-rapid fabrication and thermoelectric properties of CuSe bulk thermoelectric material.. *RSC Advances*, **2019**, 9, 10508-10519	3.7	6
91	Optimizing the average power factor of p-type (Na, Ag) co-doped polycrystalline SnSe.. *RSC Advances*, **2019**, 9, 7115-7122	3.7	12
90	Enhanced Density-of-States Effective Mass and Strained Endotaxial Nanostructures in Sb-Doped PbCdTe Thermoelectric Alloys. *ACS Applied Materials & Interfaces*, **2019**, 11, 9197-9204	9.5	46
89	3D Printing of highly textured bulk thermoelectric materials: mechanically robust BiSbTe alloys with superior performance. *Energy and Environmental Science*, **2019**, 12, 3106-3117	35.4	64
88	Enhanced Mechanical Properties of NaPbTe/MoTe Thermoelectric Composites Through in-Situ-Formed MoTe. *ACS Applied Materials & Interfaces*, **2019**, 11, 41472-41481	9.5	5
87	Large Thermal Conductivity Drops in the Diamondoid Lattice of CuFeS by Discordant Atom Doping. *Journal of the American Chemical Society*, **2019**, 141, 18900-18909	16.4	33
86	Ultra-fast fabrication of bulk ZrNiSn thermoelectric material through self-propagating high-temperature synthesis combined with in-situ quick pressing. *Scripta Materialia*, **2019**, 165, 140-144	5.6	5
85	High Thermoelectric Performance in the Wide Band-Gap AgGa1-xTe2 Compounds: Directional Negative Thermal Expansion and Intrinsically Low Thermal Conductivity. *Advanced Functional Materials*, **2019**, 29, 1806534	15.6	32

84	Ultrafast and low-cost preparation of Mg2(Si0.3Sn0.7)1−ySby with superior thermoelectric performance by self-propagating high-temperature synthesis. *Scripta Materialia*, **2019**, 162, 507-511	5.6	5
83	High Hole Mobility and Nonsaturating Giant Magnetoresistance in the New 2D Metal NaCuSe Synthesized by a Unique Pathway. *Journal of the American Chemical Society*, **2019**, 141, 635-642	16.4	9
82	Structure and thermoelectric property of Te doped paracostibite CoSb1-Te S compounds. *Journal of Solid State Chemistry*, **2018**, 262, 1-7	3.3	7
81	Modification of Bulk Heterojunction and Cl Doping for High-Performance Thermoelectric SnSe/SnSe Nanocomposites. *ACS Applied Materials & Interfaces*, **2018**, 10, 15793-15802	9.5	28
80	Realization of non-equilibrium process for high thermoelectric performance Sb-doped GeTe. *Science Bulletin*, **2018**, 63, 717-725	10.6	30
79	Self-propagating high-temperature synthesis and thermoelectric performances of Cu2SnSe3. *Journal of Alloys and Compounds*, **2018**, 750, 965-971	5.7	8
78	High Thermoelectric Performance in SnTe–AgSbTe2 Alloys from Lattice Softening, Giant Phonon–Vacancy Scattering, and Valence Band Convergence. *ACS Energy Letters*, **2018**, 3, 705-712	20.1	90
77	Rhombohedral to Cubic Conversion of GeTe via MnTe Alloying Leads to Ultralow Thermal Conductivity, Electronic Band Convergence, and High Thermoelectric Performance. *Journal of the American Chemical Society*, **2018**, 140, 2673-2686	16.4	206
76	Structure and thermoelectric properties of 2D Cr2Se3−xS3x solid solutions. *Journal of Materials Chemistry C*, **2018**, 6, 836-846	7.1	9
75	Modulation of carrier concentration and microstructure for high performance Bi x Sb 2-x Te 3 thermoelectrics prepared by rapid solidification. *Journal of Solid State Chemistry*, **2018**, 264, 141-147	3.3	8
74	High thermoelectric performance in Bi0.46Sb1.54Te3 nanostructured with ZnTe. *Energy and Environmental Science*, **2018**, 11, 1520-1535	35.4	155
73	Ultrafast Synthesis and Thermoelectric Properties of MnTe Compounds. *ACS Applied Materials & Interfaces*, **2018**, 10, 25519-25528	9.5	14
72	Ni and Se co-doping increases the power factor and thermoelectric performance of CoSbS. *Journal of Materials Chemistry A*, **2018**, 6, 15123-15131	13	11
71	Role of vacancy defects on the lattice thermal conductivity in In2O3 thermoelectric nanocrystals: a positron annihilation study. *Journal of Materials Science*, **2018**, 53, 12961-12973	4.3	10
70	Enhanced Thermoelectric Properties of Codoped CrSe: The Distinct Roles of Transition Metals and S. *ACS Applied Materials & Interfaces*, **2018**, 10, 22389-22400	9.5	11
69	Interpreting the Combustion Process for High-Performance ZrNiSn Thermoelectric Materials. *ACS Applied Materials & Interfaces*, **2018**, 10, 864-872	9.5	19
68	Understanding the combustion process for the synthesis of mechanically robust SnSe thermoelectrics. *Nano Energy*, **2018**, 44, 53-62	17.1	37
67	Structure and Improved Thermoelectric Properties of AgCrSe Compounds. *Inorganic Chemistry*, **2018**, 57, 12125-12131	5.1	2

66	Electron Density Optimization and the Anisotropic Thermoelectric Properties of Ti Self-Intercalated TiS Compounds. *ACS Applied Materials & Interfaces*, **2018**, 10, 32344-32354	9.5	14
65	Weak Electron Phonon Coupling and Deep Level Impurity for High Thermoelectric Performance Pb1□GaxTe. *Advanced Energy Materials*, **2018**, 8, 1800659	21.8	75
64	Thermal conductivity in BiSbTe and the role of dense dislocation arrays at grain boundaries. *Science Advances*, **2018**, 4, eaar5606	14.3	102
63	Multi-Scale Microstructural Thermoelectric Materials: Transport Behavior, Non-Equilibrium Preparation, and Applications. *Advanced Materials*, **2017**, 29, 1602013	24	182
62	Panoscopic approach for high-performance Te-doped skutterudite. *NPG Asia Materials*, **2017**, 9, e352-e352	10.3	37
61	Thermoelectric Materials: Multi-Scale Microstructural Thermoelectric Materials: Transport Behavior, Non-Equilibrium Preparation, and Applications (Adv. Mater. 20/2017). *Advanced Materials*, **2017**, 29,	24	3
60	Chemical synthesis and enhanced electrical properties of bulk poly(3,4-ethylenedioxythiophene)/reduced graphene oxide nanocomposites. *Synthetic Metals*, **2017**, 229, 65-71	3.6	14
59	Ultrafast Synthesis and Related Phase Evolution of Mg2Si and Mg2Sn Compounds. *Journal of Electronic Materials*, **2017**, 46, 3172-3181	1.9	4
58	Facile room temperature solventless synthesis of high thermoelectric performance Ag2Se via a dissociative adsorption reaction. *Journal of Materials Chemistry A*, **2017**, 5, 23243-23251	13	52
57	Semiconducting Pavonites CdMBi4Se8 (M = Sn and Pb) and Their Thermoelectric Properties. *Chemistry of Materials*, **2017**, 29, 8494-8503	9.6	11
56	Superparamagnetic enhancement of thermoelectric performance. *Nature*, **2017**, 549, 247-251	50.4	314
55	Grain boundary engineering with nano-scale InSb producing high performance In Ce Co4Sb12+ skutterudite thermoelectrics. *Journal of Materiomics*, **2017**, 3, 273-279	6.7	27
54	Enhanced thermoelectric performance of heavy-fermion YbAl3 via multi-scale microstructures. *Journal of Alloys and Compounds*, **2017**, 725, 1297-1303	5.7	5
53	High thermoelectric performance of p-BiSbTe compounds prepared by ultra-fast thermally induced reaction. *Energy and Environmental Science*, **2017**, 10, 2638-2652	35.4	90
52	Thermoelectric performance of CuFeS2+2x composites prepared by rapid thermal explosion. *NPG Asia Materials*, **2017**, 9, e390-e390	10.3	29
51	Modification of the intermediate band and thermoelectric properties in Se-doped CoSbS1□Sex compounds. *RSC Advances*, **2017**, 7, 34466-34472	3.7	9
50	Thermoelectric properties of Cu/Ag doped type-III Ba24Ge100 clathrates. *Journal of Solid State Chemistry*, **2017**, 253, 414-420	3.3	4
49	The Role of Zn in Chalcopyrite CuFeS2: Enhanced Thermoelectric Properties of Cu1□ZnxFeS2 with In Situ Nanoprecipitates. *Advanced Energy Materials*, **2017**, 7, 1601299	21.8	107

48	Morphology modulation of SiC nano-additives for mechanical robust high thermoelectric performance Mg2Si1Sn /SiC nano-composites. *Scripta Materialia*, **2017**, 126, 1-5	5.6	49
47	Magnetoelectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. *Nature Nanotechnology*, **2017**, 12, 55-60	28.7	155
46	Thermal Stability of P-Type BiSbTe Alloys Prepared by Melt Spinning and Rapid Sintering. *Materials*, **2017**, 10,	3.5	18
45	Optimization of Ag Nanoparticles on Thermoelectric Performance of Ba-Filled Skutterudite. *Science of Advanced Materials*, **2017**, 9, 682-687	2.3	9
44	Nonmagnetic In Substituted CuFe1InxS2 Solid Solution Thermoelectric. *Journal of Physical Chemistry C*, **2016**, 120, 27895-27902	3.8	27
43	Optimization of the Electronic Band Structure and the Lattice Thermal Conductivity of Solid Solutions According to Simple Calculations: A Canonical Example of the Mg2Si1GexSny Ternary Solid Solution. *Chemistry of Materials*, **2016**, 28, 5538-5548	9.6	40
42	Manipulating the Combustion Wave during Self-Propagating Synthesis for High Thermoelectric Performance of Layered Oxychalcogenide Bi1PbxCuSeO. *Chemistry of Materials*, **2016**, 28, 4628-4640	9.6	71
41	Phase Segregation and Superior Thermoelectric Properties of Mg2Si(1-x)Sb(x) (0 x 0.025) Prepared by Ultrafast Self-Propagating High-Temperature Synthesis. *ACS Applied Materials & Interfaces*, **2016**, 8, 3268-76	9.5	37
40	In situ nanostructure design leading to a high figure of merit in an eco-friendly stable Mg2Si0.30Sn0.70 solid solution. *RSC Advances*, **2016**, 6, 16824-16831	3.7	12
39	Reversible structural transition in spark plasma-sintered thermoelectric Zn4Sb3. *Journal of Materials Science*, **2016**, 51, 2041-2048	4.3	13
38	Toward High-Thermoelectric-Performance Large-Size Nanostructured BiSbTe Alloys via Optimization of Sintering-Temperature Distribution. *Advanced Energy Materials*, **2016**, 6, 1600595	21.8	42
37	Ultra-Fast One-Step Fabrication of Cu2Se Thermoelectric Legs With NiAl Electrodes by Plasma-Activated Reactive Sintering Technique . *Advanced Engineering Materials*, **2016**, 18, 1181-1188	3.5	8
36	Mechanochemical synthesis of high thermoelectric performance bulk Cu2X (X = S, Se) materials. *APL Materials*, **2016**, 4, 116110	5.7	24
35	Improved thermoelectric performance of (Fe,Co)Sb3-type skutterudites from first-principles. *Journal of Applied Physics*, **2016**, 119, 055101	2.5	3
34	Microstructure and thermoelectric properties of Sb doped Hf0.25Zr0.75NiSn Half-Heusler compounds with improved carrier mobility. *Intermetallics*, **2016**, 74, 1-7	3.5	13
33	Thermal stability of Mg2Si0.3Sn0.7 under different heat treatment conditions. *Journal of Materials Chemistry C*, **2015**, 3, 10381-10387	7.1	29
32	Ultra-fast non-equilibrium synthesis and phase segregation in InxSn1Te thermoelectrics by SHS-PAS processing. *Journal of Materials Chemistry C*, **2015**, 3, 8550-8558	7.1	35
31	High thermoelectric performance of higher manganese silicides prepared by ultra-fast thermal explosion. *Journal of Materials Chemistry C*, **2015**, 3, 12116-12122	7.1	47

30	Enhanced power factor of Mg 2 Si 0.3 Sn 0.7 synthesized by a non-equilibrium rapid solidification method. *Scripta Materialia*, **2015**, 96, 1-4	5.6	45
29	Mechanically Robust BiSbTe Alloys with Superior Thermoelectric Performance: A Case Study of Stable Hierarchical Nanostructured Thermoelectric Materials. *Advanced Energy Materials*, **2015**, 5, 1401391	21.8	232
28	Influence of O-Co-O layer thickness on the thermal conductivity of NaxCo2O4 studied by positron annihilation. *Journal of Applied Physics*, **2015**, 118, 035102	2.5	1
27	High thermoelectric performance of mechanically robust n-type Bi2Te3−xSex prepared by combustion synthesis. *Journal of Materials Chemistry A*, **2015**, 3, 6603-6613	13	97
26	Enhanced Thermoelectric Properties of La-Doped ZrNiSn Half-Heusler Compound. *Journal of Electronic Materials*, **2015**, 44, 3563-3570	1.9	16
25	Thermoelectric Properties of Ga/Ag Codoped Type-III Ba8Ge43□3 Clathrates with in Situ Nanostructures. *ACS Applied Materials & Interfaces*, **2015**, 7, 19172-8	9.5	8
24	Structural transition of partially Ba-filled thermoelectric CoSb3 investigated by positron annihilation spectroscopy. *Journal of Applied Physics*, **2015**, 117, 055103	2.5	2
23	Low effective mass and carrier concentration optimization for high performance p-type Mg2(1-x)Li2xSi0.3Sn0.7 solid solutions. *Physical Chemistry Chemical Physics*, **2014**, 16, 23576-83	3.6	59
22	Self-propagating high-temperature synthesis for compound thermoelectrics and new criterion for combustion processing. *Nature Communications*, **2014**, 5, 4908	17.4	243
21	Ultra-fast synthesis and thermoelectric properties of Te doped skutterudites. *Journal of Materials Chemistry A*, **2014**, 2, 17914-17918	13	78
20	Low-temperature transport properties of Tl-doped Bi2Te3 single crystals. *Physical Review B*, **2013**, 88,	3.3	38
19	Stretchable nanoparticle conductors with self-organized conductive pathways. *Nature*, **2013**, 500, 59-63	50.4	613
18	In situ synthesis and thermoelectric properties of PbTe□graphene nanocomposites by utilizing a facile and novel wet chemical method. *Journal of Materials Chemistry A*, **2013**, 1, 12503	13	101
17	Enhanced hole concentration through Ga doping and excess of Mg and thermoelectric properties of p-type Mg2(1+z)(Si0.3Sn0.7)1−yGay. *Intermetallics*, **2013**, 32, 352-361	3.5	46
16	Realization of high thermoelectric performance in p-type unfilled ternary skutterudites FeSb2+xTe1−x via band structure modification and significant point defect scattering. *Acta Materialia*, **2013**, 61, 7693-7704	8.4	39
15	Lower Thermal Conductivity and Higher Thermoelectric Performance of Fe-Substituted and Ce, Yb Double-Filled p-Type Skutterudites. *Journal of Electronic Materials*, **2013**, 42, 1622-1627	1.9	19
14	Enhanced thermoelectric properties of Ba-filled skutterudites by grain size reduction and Ag nanoparticle inclusion. *Journal of Materials Chemistry*, **2012**, 22, 2958-2964		76
13	The role of Ga in Ba0.30GaxCo4Sb12+x filled skutterudites. *Journal of Materials Chemistry*, **2012**, 22, 15628		25

12	Configuring pnicogen rings in skutterudites for low phonon conductivity. *Physical Review B*, **2012**, 86,	3.3	28
11	Thermoelectric Performance of Sb- and La-Doped Mg2Si0.5Ge0.5. *Journal of Electronic Materials*, **2012**, 41, 1589-1594	1.9	16
10	Microstructure and thermoelectric properties of CoSb2.75Ge0.25Tex prepared by rapid solidification. *Acta Materialia*, **2012**, 60, 3536-3544	8.4	55
9	Simultaneous large enhancements in thermopower and electrical conductivity of bulk nanostructured half-Heusler alloys. *Journal of the American Chemical Society*, **2011**, 133, 18843-52	16.4	205
8	Structure and Transport Properties of Double-Doped CoSb2.75Ge0.25Tex (x = 0.125−0.20) with in Situ Nanostructure. *Chemistry of Materials*, **2011**, 23, 2948-2955	9.6	102
7	Structure and Thermoelectric Properties of Te- and Ge-Doped Skutterudites CoSb2.875 Ge0.125Te x. *Journal of Electronic Materials*, **2011**, 40, 1286-1291	1.9	8
6	High-temperature charge and thermal transport properties of the n-type thermoelectric material PbSe. *Physical Review B*, **2011**, 84,	3.3	48
5	Synthesis and thermoelectric properties of p-type Zn-doped ZnxIn1Sb compounds. *Journal Physics D: Applied Physics*, **2010**, 43, 015403	3	7
4	Nanostructured bulk YbxCo4Sb12with high thermoelectric performance prepared by the rapid solidification method. *Journal Physics D: Applied Physics*, **2009**, 42, 145409	3	52
3	Preparation and thermoelectric properties of high-performance Sb additional Yb0.2Co4Sb12+y bulk materials with nanostructure. *Applied Physics Letters*, **2008**, 92, 202114	3.4	126
2	Preparation of eco-environmental protection bricks from lake sludge. *Journal Wuhan University of Technology, Materials Science Edition*, **2008**, 23, 912-916	1	2
1	Regulation of Ge vacancies through Sm doping resulting in superior thermoelectric performance in GeTe. *Journal of Materials Chemistry A*,	13	7