

Xiaoyuan Zhou

List of Publications by Year in descending order

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134
papers

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87888

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Realizing Cd and Ag codoping in p-type Mg ₃ Sb ₂ toward high thermoelectric performance. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 2486-2494.	11.9	19
2	Origin of Bismuth-Rich Strategy in Bismuth Oxyhalide Photocatalysts. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	17
3	In-situ micro-Raman study of SnSe single crystals under atmosphere: Effect of laser power and temperature. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120375.	3.9	11
4	Realizing Enhanced Thermoelectric Performance and Hardness in Icosahedral Cu ₅ FeS ₄ with High-Density Twin Boundaries. <i>Small</i> , 2022, 18, e2104592.	10.0	15
5	Constructing n-type Ag ₂ Se/CNTs composites toward synergistically enhanced thermoelectric and mechanical performance. <i>Acta Materialia</i> , 2022, 223, 117502.	7.9	48
6	Synergistic modulation of the thermoelectric performance of melt-spun p-type Mg ₂ Sn via Na ₂ S and Si alloying. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5452-5459.	10.3	6
7	A Tunable Structural Family with Ultralow Thermal Conductivity: Copper-Deficient Cu _{1-x} Bi _{1+x} S _{3.7} . <i>Journal of the American Chemical Society</i> , 2022, 144, 1846-1860.	13.7	15
8	Photoinduced Ultrafast Symmetry Switch in SnSe. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 442-448.	4.6	8
9	Porous Ni-Cu Alloy Dendrite Anode Catalysts with High Activity and Selectivity for Direct Borohydride Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3910-3918.	8.0	14
10	Unraveling the dual defect sites in graphite carbon nitride for ultra-high photocatalytic H ₂ O evolution. <i>Energy and Environmental Science</i> , 2022, 15, 830-842.	30.8	308
11	Unconventional Doping Effect Leads to Ultrahigh Average Thermoelectric Power Factor in Cu ₃ SbSe ₄ -Based Composites. <i>Advanced Materials</i> , 2022, 34, e2109952.	21.0	28
12	Exceptional Thermoelectric Performance Enabled by High Carrier Mobility and Intrinsically Low Lattice Thermal Conductivity in Phosphide Cd ₃ P ₂ . <i>Chemistry of Materials</i> , 2022, 34, 1620-1626.	6.7	9
13	Single-atom sites on perovskite chips for record-high sensitivity and quantification in SERS. <i>Science China Materials</i> , 2022, 65, 1601-1614.	6.3	6
14	Phase Modulation Enabled High Thermoelectric Performance in Polycrystalline GeSe _{0.75} Te _{0.25} . <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	7
15	Ultrahigh Photocatalytic CO ₂ Reduction Efficiency and Selectivity Manipulation by Single Tungsten Atom Oxide at the Atomic Step of TiO ₂ . <i>Advanced Materials</i> , 2022, 34, e2109074.	21.0	107
16	Isotype Heterojunction-Boosted CO ₂ Photoreduction to CO. <i>Nano-Micro Letters</i> , 2022, 14, 74.	27.0	56
17	Anomalous Thermoelectric Performance in Asymmetric Dirac Semimetal BaAgBi. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2291-2298.	4.6	19
18	Enhanced Thermoelectric Performance in SmMg ₂ Bi ₂ via Ca-Alloying and Ge-Doping. <i>ACS Applied Energy Materials</i> , 2022, 5, 5182-5190.	5.1	5

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19	Attaining enhanced thermoelectric performance in p-type (SnSe) _{1-x} (SnS ₂) produced via sintering their solution-synthesized micro/nanostructures. <i>Journal of Materials Science and Technology</i> , 2022, 120, 205-213.	10.7	5
20	Revealing the intrinsic p-to-n transition mechanism on Mg ₃ Sb ₂ through extra Mg. <i>Applied Physics Letters</i> , 2022, 120, 173902.	3.3	4
21	Piezo-Electrocatalysis for CO ₂ Reduction Driven by Vibration. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	55
22	Strong anharmonicity induced low lattice thermal conductivity and high thermoelectric performance in (CuInTe ₂) _{1-x} (AgSbTe ₂) _x system. <i>Applied Physics Letters</i> , 2022, 121, 013903.	3.3	1
23	High-performance magnesium-based thermoelectric materials: Progress and challenges. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1719-1736.	11.9	29
24	Highly (100)-orientated SnSe thin films deposited by pulsed-laser deposition. <i>Applied Surface Science</i> , 2021, 535, 147694.	6.1	11
25	Realizing enhanced thermoelectric properties in Cu ₂ S-alloyed SnSe based composites produced via solution synthesis and sintering. <i>Journal of Materials Science and Technology</i> , 2021, 78, 121-130.	10.7	38
26	Entropy Engineered Cubic n-Type AgBiSe ₂ Alloy with High Thermoelectric Performance in Fully Extended Operating Temperature Range. <i>Advanced Energy Materials</i> , 2021, 11, 2003304.	19.5	51
27	Boosting the thermoelectric performance of p-type polycrystalline SnSe with high doping efficiency via precipitation design. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2991-2998.	10.3	10
28	The role of electronegativity in the thermoelectric performance of GeTe _{1-x} V _x solid solutions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2385-2393.	10.3	22
29	Co and Pt Dual-Atom Sites with Oxygen-Coordinated Co-O-Pt Dimer Sites for Ultrahigh Photocatalytic Hydrogen Evolution Efficiency. <i>Advanced Materials</i> , 2021, 33, e2003327.	21.0	123
30	Amorphous Carbon Nitride with Three Coordinate Nitrogen (N ₃ C) Vacancies for Exceptional NO _x Abatement in Visible Light. <i>Advanced Energy Materials</i> , 2021, 11, 2004001.	19.5	91
31	A polymer controlled nucleation route towards the generalized growth of organic-inorganic perovskite single crystals. <i>Nature Communications</i> , 2021, 12, 2023.	12.8	69
32	Exceptional Performance Driven by Planar Honeycomb Structure in a New High Temperature Thermoelectric Material BaAgAs. <i>Advanced Functional Materials</i> , 2021, 31, 2100583.	14.9	25
33	Identification of vibrational mode symmetry and phonon anharmonicity in SbCrSe ₃ single crystal using Raman spectroscopy. <i>Science China Materials</i> , 2021, 64, 2824-2834.	6.3	4
34	Melt-spun Sn _{1-x} Sb _x MnTe with unique multiscale microstructures approaching exceptional average thermoelectric zT. <i>Nano Energy</i> , 2021, 84, 105879.	16.0	46
35	Solution-Synthesized SnSe _{1-x} S _x : Dual-Functional Materials with Enhanced Electrochemical Storage and Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37201-37211.	8.0	10
36	Thermoelectric CoGeTe with an Orthorhombic Crystal Symmetry and Balance of the Electrical and Thermal Properties. <i>Inorganic Chemistry</i> , 2021, 60, 12331-12338.	4.0	1

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37	Thermoelectric performance of binary lithium-based compounds: Li ₃ Sb and Li ₃ Bi. Applied Physics Letters, 2021, 119, .	3.3	7
38	Phase Tuning for Enhancing the Thermoelectric Performance of Solution-Synthesized Cu ₂ xS. ACS Applied Materials & Interfaces, 2021, 13, 39541-39549.	8.0	8
39	Rattling and Band-Filling Effects in Substituted Tetrahedrites: An NMR Study. Journal of Physical Chemistry C, 2021, 125, 18877-18886.	3.1	1
40	Phase Composition Manipulation and Twin Boundary Engineering Lead to Enhanced Thermoelectric Performance of Cu ₂ Sn ₃ . ACS Applied Energy Materials, 2021, 4, 9240-9247.	5.1	17
41	Colloidal synthesis of diamond-like compound Cu ₂ SnTe ₃ and thermoelectric properties of (Cu _{0.96} InTe ₂) _{1-x} (Cu ₂ SnTe ₃) solid solutions. Chemical Engineering Journal, 2021, 422, 129985.	12.7	8
42	An efficient Ni-P amorphous alloy electrocatalyst with a hierarchical structure toward borohydride oxidation. Dalton Transactions, 2021, 50, 10168-10179.	3.3	15
43	Lattice Thermal Transport in the Homogeneous Cage-Like Compounds Cu ₃ VSe ₄ and Cu ₃ NbSe ₄ : Interplay between Phonon-Phase Space, Anharmonicity, and Atomic Mass. ChemPhysChem, 2021, 22, 2579-2584.	2.1	3
44	Multiple Effects Promoting the Thermoelectric Performance of SnTe by Alloying with CuSbTe ₂ and CuBiTe ₂ . ACS Applied Materials & Interfaces, 2021, 13, 52775-52782.	8.0	10
45	Strong coupling between magnetic order and band topology in the antiferromagnet EuMnSb_2 . Physical Review B, 2021, 104, .	3.3	1
46	Magneto-Seebeck effect and ambipolar Nernst effect in the CsV_3Sb_5 superconductor. Physical Review B, 2021, 104, .	3.3	1
47	Ultralow Lattice Thermal Conductivity of Cubic CuFeS ₂ Induced by Atomic Disorder. Chemistry of Materials, 2021, 33, 9795-9802.	6.7	15
48	zT = 1.1 in CuInTe ₂ Solid Solutions Enabled by Rational Defect Engineering. ACS Applied Energy Materials, 2020, 3, 2039-2048.	5.1	16
49	Facile <i>in situ</i> solution synthesis of SnSe/rGO nanocomposites with enhanced thermoelectric performance. Journal of Materials Chemistry A, 2020, 8, 1394-1402.	10.3	117
50	Ultra-small subnano TiO _x clusters as excellent cocatalysts for the photocatalytic degradation of tetracycline on plasmonic Ag/AgCl. Catalysis Science and Technology, 2020, 10, 147-153.	4.1	5
51	Synergistic effect of CuInSe ₂ alloying on enhancing the thermoelectric performance of Cu ₂ SnSe ₃ compounds. Journal of Materials Chemistry A, 2020, 8, 21181-21188.	10.3	10
52	Structure-Dependent Thermoelectric Properties of GeSe _{1-x} Te _x (0 ≤ x ≤ 0.5). ACS Applied Materials & Interfaces, 2020, 12, 41381-41389.	8.0	18
53	Achieving Enhanced Thermoelectric Performance in (SnTe) _{1-x} (Sb ₂ Te ₃) _x and (SnTe) _{1-y} (Sb ₂ Se ₃) _y Synthesized via Solvothermal Reaction and Sintering. ACS Applied Materials & Interfaces, 2020, 12, 44805-44814.	8.0	26
54	Manipulating the phase transformation temperature to achieve cubic Cu ₅ FeS ₄ xSe _x and enhanced thermoelectric performance. Journal of Materials Chemistry C, 2020, 8, 17222-17228.	5.5	8

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55	Dynamic Epitaxial Crystallization of SnSe ₂ on the Oxidized SnSe Surface and Its Atomistic Mechanisms. ACS Applied Materials & Interfaces, 2020, 12, .	8.0	9
56	High Thermoelectric Performance in Sulfide-Type Argyrodites Compound Ag ₈ Sn(S _{1-x} Se _x) ₆ Enabled by Ultralow Lattice Thermal Conductivity and Extended Cubic Phase Regime. Advanced Functional Materials, 2020, 30, 2000526.	14.9	38
57	General surfactant-free synthesis of binary silver chalcogenides with tuneable thermoelectric properties. Chemical Engineering Journal, 2020, 393, 124763.	12.7	33
58	Copper-Ion Dynamics and Phase Segregation in Cu-Rich Tetrahedrite: an NMR Study. Journal of Physical Chemistry C, 2020, 124, 3973-3979.	3.1	3
59	A dual mode electronic synapse based on layered SnSe films fabricated by pulsed laser deposition. Nanoscale Advances, 2020, 2, 1152-1160.	4.6	8
60	Realizing both n- and p-types of high thermoelectric performance in Fe _{1-x} Ni _x TiSb half-Heusler compounds. Journal of Materials Chemistry C, 2020, 8, 3156-3164.	5.5	11
61	High Thermoelectric Performance of Co-Doped P-Type Polycrystalline SnSe via Optimizing Electrical Transport Properties. ACS Applied Materials & Interfaces, 2020, 12, 8446-8455.	8.0	31
62	Enhancing the Thermoelectric Performance of p-Type Mg ₃ Sb ₂ via Codoping of Li and Cd. ACS Applied Materials & Interfaces, 2020, 12, 8359-8365.	8.0	54
63	Synergistically promoted thermoelectric performance of SnTe by alloying with NaBiTe ₂ . Applied Physics Letters, 2020, 116, 173902.	3.3	18
64	Thermoelectricity of n-type MnBi ₄ S _{7-7x} Se _{7x} solid solution. Chemical Engineering Journal, 2020, 396, 125219.	12.7	8
65	The unique evolution of transport bands and thermoelectric performance enhancement by extending low-symmetry phase to high temperature in tin selenide. Journal of Materials Chemistry C, 2020, 8, 9345-9351.	5.5	8
66	Thermoelectric study of Zn-doped n-type AgIn ₅ Se ₈ : Hopping and band electrical conduction along with low lattice thermal conduction in diamond-like structure. Journal of Alloys and Compounds, 2019, 805, 444-453.	5.5	6
67	Ultrahigh Photocatalytic Rate at a Single-Metal-Atom-Oxide. Advanced Materials, 2019, 31, e1903491.	21.0	53
68	Synergistic Effect of Bismuth and Indium Codoping for High Thermoelectric Performance of Melt Spinning SnTe Alloys. ACS Applied Materials & Interfaces, 2019, 11, 23337-23345.	8.0	30
69	Nitrous oxide emission mitigation during low-carbon source wastewater treatment: effect of external carbon source supply strategy. Environmental Science and Pollution Research, 2019, 26, 23095-23107.	5.3	18
70	Enhanced thermoelectric properties of YbZn ₂ Sb _{2-x} Bi _x through a synergistic effect via Bi-doping. Chemical Engineering Journal, 2019, 374, 589-595.	12.7	38
71	Charge Disproportionation Triggers Bipolar Doping in FeSb ₂ Sn ₄ Se ₄ Ferromagnetic Semiconductors, Enabling a Temperature-Induced Lifshitz Transition. Journal of the American Chemical Society, 2019, 141, 9249-9261.	13.7	7
72	Promoted high temperature carrier mobility and thermoelectric performance of InTe enabled by altering scattering mechanism. Journal of Materials Chemistry A, 2019, 7, 11690-11698.	10.3	25

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73	Synergistically optimized thermoelectric properties of $\text{Ag}_{1+x}\text{In}_5\text{Se}_8$ alloys. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3545-3553.	6.0	5
74	High-Temperature Structural and Thermoelectric Study of Argyrodite Ag_8GeSe_6 . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2168-2176.	8.0	51
75	Rapid preparation of $\text{Ge}_{0.9}\text{Sb}_{0.1}\text{Te}_{1+x}$ via unique melt spinning: Hierarchical microstructure and improved thermoelectric performance. <i>Journal of Alloys and Compounds</i> , 2019, 774, 129-136.	5.5	16
76	Routes for high-performance thermoelectric materials. <i>Materials Today</i> , 2018, 21, 974-988.	14.2	265
77	Low temperature thermoelectric properties of <i>p</i> -type doped single-crystalline SnSe. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	24
78	Sodium-Doped Tin Sulfide Single Crystal: A Nontoxic Earth-Abundant Material with High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1800087.	19.5	80
79	Substitution defect enhancing thermoelectric properties in CuInTe_2 . <i>Materials Research Bulletin</i> , 2018, 101, 184-189.	5.2	18
80	Twin Engineering in Solution-Synthesized Nonstoichiometric Cu_5FeS_4 Icosahedral Nanoparticles for Enhanced Thermoelectric Performance. <i>Advanced Functional Materials</i> , 2018, 28, 1705117.	14.9	53
81	High thermoelectric performance balanced by electrical and thermal transport in tetrahedrites $\text{Cu}_{12}\text{Sb}_4\text{S}_{12}\text{Se}$. <i>Energy Storage Materials</i> , 2018, 13, 127-133.	18.0	35
82	Ultra-high average figure of merit in synergistic band engineered $\text{Sn}_{1-x}\text{Se}_{0.9}\text{S}_{0.1}$ single crystals. <i>Materials Today</i> , 2018, 21, 501-507.	14.2	71
83	High thermoelectric performance in complex phosphides enabled by stereochemically active lone pair electrons. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24877-24884.	10.3	28
84	Achieving higher thermoelectric performance for p-type $\text{Cr}_2\text{Ge}_2\text{Te}_6$ via optimizing doping. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	12
85	Structure Change and Rattling Dynamics in $\text{Cu}_{12}\text{Sb}_4\text{S}_{13}$ Tetrahedrite: an NMR Study. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36010-36017.	8.0	19
86	Contributed Review: Instruments for measuring Seebeck coefficient of thin film thermoelectric materials: A mini-review. <i>Review of Scientific Instruments</i> , 2018, 89, 101501.	1.3	21
87	Enhanced thermoelectric performance in Cu_2GeSe_3 via (Ag,Ga)-co-doping on cation sites. <i>Journal of Alloys and Compounds</i> , 2018, 769, 218-225.	5.5	10
88	Ga-Doping-Induced Carrier Tuning and Multiphase Engineering in n-type PbTe with Enhanced Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22401-22407.	8.0	49
89	Two impurity energy level regulation leads to enhanced thermoelectric performance of $\text{Ag}_x\text{Cd}_x\text{In}_5\text{Se}_8$. <i>RSC Advances</i> , 2017, 7, 12719-12725.	3.6	8
90	Synergistic Strategy to Enhance the Thermoelectric Properties of $\text{CoSbS}_3\text{Se}_x$ Compounds via Solid Solution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10595-10601.	8.0	38

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109	Broad temperature plateau for high ZTs in heavily doped p-type SnSe single crystals. <i>Energy and Environmental Science</i> , 2016, 9, 454-460.	30.8	396
110	Large-Scale Colloidal Synthesis of Co-doped Cu ₂ SnSe ₃ Nanocrystals for Thermoelectric Applications. <i>Journal of Electronic Materials</i> , 2016, 45, 1935-1941.	2.2	14
111	Melt spinning synthesis of p-type skutterudites: Drastically speed up the process of high performance thermoelectrics. <i>Scripta Materialia</i> , 2016, 116, 26-30.	5.2	27
112	Super-rapid Preparation of Nanostructured Nd _x Fe ₃ CoSb ₁₂ Compounds and Their Improved Thermoelectric Performance. <i>Journal of Electronic Materials</i> , 2016, 45, 1271-1277.	2.2	14
113	Effect of Al substitution on Thermoelectric Performance of CuInTe ₂ compounds. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1735, 136.	0.1	4
114	Colloidal synthesis of Cu _{2-x} Ag _x CdSnSe ₄ nanocrystals: microstructures facilitate high performance thermoelectricity. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12273-12280.	5.5	23
115	Fast and highly sensitive humidity sensors based on NaNbO ₃ nanofibers. <i>RSC Advances</i> , 2015, 5, 20453-20458.	3.6	37
116	Photovoltaic performance of dye-sensitized solar cells using TiO ₂ nanotubes aggregates produced by hydrothermal synthesis. <i>International Journal of Modern Physics B</i> , 2015, 29, 1542050.	2.0	2
117	Rapid Fabrication of CuInSb _x Te _{2-x} (0 ≤ x ≤ 0.10) Compounds and Their Thermoelectric Performance. <i>Science of Advanced Materials</i> , 2015, 7, 2672-2678.	0.7	4
118	Hierarchically structured TiO ₂ for Ba-filled skutterudite with enhanced thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20629-20635.	10.3	50
119	Donor and acceptor impurity-driven switching of magnetic ordering in MnSb _{2-x} Sn _x Se ₄ . <i>Journal of Materials Chemistry C</i> , 2014, 2, 6199-6210.	5.5	30
120	High Performance Thermoelectricity in Earth-Abundant Compounds Based on Natural Mineral Tetrahedrites. <i>Advanced Energy Materials</i> , 2013, 3, 342-348.	19.5	455
121	High Thermoelectric Performance via Hierarchical Compositionally Alloyed Nanostructures. <i>Journal of the American Chemical Society</i> , 2013, 135, 7364-7370.	13.7	344
122	Investigation of the valence band structure of PbSe by optical and transport measurement. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1490, 75-81.	0.1	2
123	Enhanced thermoelectric properties of Ba-filled skutterudites by grain size reduction and Ag nanoparticle inclusion. <i>Journal of Materials Chemistry</i> , 2012, 22, 2958-2964.	6.7	87
124	Enhanced thermoelectric properties of n-type Mg _{2.16} (Si _{0.4} Sn _{0.6}) _{1-y} Sb _y due to nano-sized Sn-rich precipitates and an optimized electron concentration. <i>Journal of Materials Chemistry</i> , 2012, 22, 13653.	6.7	134
125	PbTe-PbSnS ₂ thermoelectric composites: low lattice thermal conductivity from large microstructures. <i>Energy and Environmental Science</i> , 2012, 5, 8716.	30.8	54
126	Thermoelectrics with Earth Abundant Elements: High Performance p-type PbS Nanostructured with SrS and CaS. <i>Journal of the American Chemical Society</i> , 2012, 134, 7902-7912.	13.7	233

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127	Thermoelectric Performance of Sb- and La-Doped Mg ₂ Si _{0.5} Ge _{0.5} . Journal of Electronic Materials, 2012, 41, 1589-1594.	2.2	18
128	Microstructure and thermoelectric properties of CoSb _{2.75} Ge _{0.25} Te prepared by rapid solidification. Acta Materialia, 2012, 60, 3536-3544.	7.9	62
129	Optimized Thermoelectric Properties of Sb-Doped Mg ₂ (1+z)Si _{0.5} Sn _{0.5} Sb _y through Adjustment of the Mg Content. Chemistry of Materials, 2011, 23, 5256-5263.	6.7	148
130	Structure and Transport Properties of Double-Doped CoSb _{2.75} Ge _{0.25} Te (x = 0.125±0.20) with in Situ Nanostructure. Chemistry of Materials, 2011, 23, 2948-2955.	6.7	111
131	Thermoelectric properties of Co _{0.9} Fe _{0.1} Sb ₃ -based skutterudite nanocomposites with FeSb ₂ nanoinclusions. Journal of Applied Physics, 2011, 109, .	2.5	21
132	High Performance Na-doped PbTe/PbS Thermoelectric Materials: Electronic Density of States Modification and Shape-Controlled Nanostructures. Journal of the American Chemical Society, 2011, 133, 16588-16597.	13.7	322
133	Crystal Structure, Charge Transport, and Magnetic Properties of MnSb ₂ Se ₄ . European Journal of Inorganic Chemistry, 2011, 2011, 3969-3977.	2.0	37
134	Realizing ultrahigh average figure of merit through manipulating layered phonon-electron decoupling. Science China Materials, 0, , .	6.3	1