

# Jian Zhang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/857326/jian-zhang-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

115  
papers

2,804  
citations

30  
h-index

45  
g-index

119  
ext. papers

3,411  
ext. citations

6.9  
avg, IF

5.23  
L-index

#	Paper	IF	Citations
115	Lattice Strain Leads to High Thermoelectric Performance in Polycrystalline SnSe. <i>ACS Nano</i> , <b>2021</b> , 15, 8204-8215	16.7	21
114	Improved Thermoelectric Performance of CuSbS through Gd-Substitution Induced Enhancement of Electronic Density of States and Phonon Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 25092-25101	9.5	2
113	Boosting Thermoelectric Performance of CuSnSe Comprehensive Band Structure Regulation and Intensified Phonon Scattering by Multidimensional Defects. <i>ACS Nano</i> , <b>2021</b> , 15, 10532-10541	16.7	10
112	Synergistic optimization of electrical and thermal transport in n-type Bi-doped PbTe by introducing coherent nanophase Cu <sub>1.75</sub> Te. <i>Journal of Materiomics</i> , <b>2021</b> , 7, 146-155	6.7	2
111	Ultra-low thermal conductivity and high thermoelectric performance realized in a Cu <sub>3</sub> SbSe <sub>4</sub> based system. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 324-332	7.8	5
110	High-performance eco-friendly MnTe thermoelectrics through introducing SnTe nanocrystals and manipulating band structure. <i>Nano Energy</i> , <b>2021</b> , 81, 105649	17.1	13
109	Enhanced power factor and thermoelectric performance for n-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> based composites incorporated with 3D topological insulator nano-inclusions. <i>Nano Energy</i> , <b>2021</b> , 80, 105512	17.1	15
108	Ultralow Thermal Conductivity and Enhanced Figure of Merit for CuSbSe <sub>2</sub> via Cd-Doping. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1637-1643	6.1	3
107	Electrical and Magnetic Properties for Bulk FeSe and FeSe <sub>0.5</sub> Te <sub>0.5</sub> Superconductors. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 941-946	1.9	0
106	Introducing PbSe Quantum Dots and Manipulating Lattice Strain Contributing to High Thermoelectric Performance in Polycrystalline SnSe. <i>Materials Today Physics</i> , <b>2021</b> , 100542	8	4
105	Improving the thermoelectric performance of CuSnSe regulating micro- and electronic structures. <i>Nanoscale</i> , <b>2021</b> , 13, 4233-4240	7.7	5
104	Enhanced thermoelectric performance of n-type Sn <sub>x</sub> Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> based composites embedded with in-situ formed SnBi and Te nano-inclusions. <i>Composites Part B: Engineering</i> , <b>2020</b> , 197, 108151	10	13
103	Thermoelectric performance of nanostructured In/Pb codoped SnTe with band convergence and resonant level prepared via a green and facile hydrothermal method. <i>Nanoscale</i> , <b>2020</b> , 12, 5857-5865	7.7	10
102	Effects of Sb Deviation from Its Stoichiometric Ratio on the Micro- and Electronic Structures and Thermoelectric Properties of CuSbS. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 14145-14153	9.5	6
101	High thermoelectric performance for an Ag <sub>2</sub> Se-based material prepared by a wet chemical method. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 875-880	7.8	19
100	Synergistically optimized electrical and thermal properties by introducing electron localization and phonon scattering centers in CuGaTe <sub>2</sub> with enhanced mechanical properties. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 7534-7542	7.1	4
99	Synergistic band convergence and endotaxial nanostructuring: Achieving ultralow lattice thermal conductivity and high figure of merit in eco-friendly SnTe. <i>Nano Energy</i> , <b>2020</b> , 67, 104261	17.1	45

98	Ultralow Thermal Conductivity and Extraordinary Thermoelectric Performance Realized in Codoped CuSbSe by Plasma Spark Sintering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3886-3892	9.5	14
97	Synergetic modulation of power factor and thermal conductivity for Cu <sub>3</sub> SbSe <sub>4</sub> -based system. <i>Materials Today Energy</i> , <b>2020</b> , 18, 100491	7	12
96	Achieving High Thermoelectric Performance in p-Type BST/PbSe Nanocomposites through the Scattering Engineering Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 46181-46189	9.5	6
95	Realization of High Thermoelectric Performance in Polycrystalline Tin Selenide through Schottky Vacancies and Endotaxial Nanostructuring. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9761-9770	9.6	11
94	Ultralow Thermal Conductivity and High Thermoelectric Performance of N-type BiTeSe-Based Composites Incorporated with GaAs NanoInclusions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37155-37163	9.5	14
93	Enhanced thermoelectric performance of PbTe based materials by Bi doping and introducing MgO nanoparticles. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 042105	3.4	8
92	Realizing high thermoelectric performance in eco-friendly SnTe via synergistic resonance levels, band convergence and endotaxial nanostructuring with Cu <sub>2</sub> Te. <i>Nano Energy</i> , <b>2020</b> , 73, 104832	17.1	38
91	Self-Powered Filterless Narrow-Band p-n Heterojunction Photodetector for Low Background Limited Near-Infrared Image Sensor Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 21845-21853	9.5	18
90	Improved Figure of Merit of CuSnSe via Band Structure Modification and Energy-Dependent Carrier Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19693-19700	9.5	11
89	Achieving a High Thermoelectric Performance of Tetrahedrites by Adjusting the Electronic Density of States and Enhancing Phonon Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 23361-23374	9.5	12
88	Oriented Attachment Revisited: Does a Chemical Reaction Occur?. <i>Matter</i> , <b>2019</b> , 1, 690-704	12.7	14
87	Nanostructured SnSe integrated with Se quantum dots with ultrahigh power factor and thermoelectric performance from magnetic field-assisted hydrothermal synthesis. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15757-15765	13	24
86	Realized high power factor and thermoelectric performance in Cu <sub>3</sub> SbSe <sub>4</sub> . <i>Intermetallics</i> , <b>2019</b> , 109, 68-73	3.5	10
85	Light Element Doping and Introducing Spin Entropy: An Effective Strategy for Enhancement of Thermoelectric Properties in BiCuSeO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 15543-15551	9.5	22
84	Achieving high thermoelectric performance through constructing coherent interfaces and building interface potential barriers in n-type Bi <sub>2</sub> Te <sub>3</sub> /Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> nanocomposites. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19120-19129	13	36
83	Boosting Thermoelectric Performance of SnSe via Tailoring Band Structure, Suppressing Bipolar Thermal Conductivity, and Introducing Large Mass Fluctuation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 45133-45141	9.5	24
82	Design of Domain Structure and Realization of Ultralow Thermal Conductivity for Record-High Thermoelectric Performance in Chalcopyrite. <i>Advanced Materials</i> , <b>2019</b> , 31, e1905210	24	32
81	High Thermoelectric Performance of SnTe via In Doping and Cu <sub>1.75</sub> Se Nanostructuring Approach. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8966-8973	6.1	10

80	Achieving high power factor and thermoelectric performance through dual substitution of Zn and Se in tetrahedrites Cu <sub>12</sub> Sb <sub>4</sub> S <sub>13</sub> . <i>Applied Physics Letters</i> , <b>2019</b> , 115, 182102	3.4	13
79	Realized high power factor and thermoelectric performance in Cu <sub>2</sub> SnSe <sub>3</sub> . <i>Scripta Materialia</i> , <b>2019</b> , 159, 46-50	5.6	13
78	Extremely low thermal conductivity and enhanced thermoelectric performance of polycrystalline SnSe by Cu doping. <i>Scripta Materialia</i> , <b>2018</b> , 147, 74-78	5.6	44
77	Preparation and enhanced thermoelectric performance of Pb-doped tetrahedrite Cu <sub>12-x</sub> Pb <sub>x</sub> Sb <sub>4</sub> S <sub>13</sub> . <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 478-483	5.7	17
76	Enhanced thermoelectric performance of Bi <sub>0.4</sub> Sb <sub>1.6</sub> Te <sub>3</sub> based composites with CuInTe <sub>2</sub> inclusions. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 758, 72-77	5.7	19
75	High thermoelectric performance of n-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> via nanostructure engineering. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9642-9649	13	58
74	High thermoelectric performance of tetrahedrites through InSb inclusion. <i>Materialia</i> , <b>2018</b> , 3, 169-173	3.2	6
73	Realizing High Thermoelectric Performance below Phase Transition Temperature in Polycrystalline SnSe via Lattice Anharmonicity Strengthening and Strain Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30558-30565	9.5	25
72	Simultaneously enhanced power factor and phonon scattering in Bi <sub>0.4</sub> Sb <sub>1.6</sub> Te <sub>3</sub> alloy doped with germanium. <i>Scripta Materialia</i> , <b>2018</b> , 154, 118-122	5.6	7
71	Achieving High Thermoelectric Figure of Merit in Polycrystalline SnSe via Introducing Sn Vacancies. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 499-505	16.4	111
70	Achieving high thermoelectric performance with Pb and Zn codoped polycrystalline SnSe via phase separation and nanostructuring strategies. <i>Nano Energy</i> , <b>2018</b> , 53, 683-689	17.1	68
69	Thermoelectric properties of TiS <sub>2-x</sub> PbSnS <sub>3</sub> nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 1342-1348	5.7	14
68	Enhanced thermoelectric performance of BiCuSeO by increasing Seebeck coefficient through magnetic ion incorporation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13392-13399	13	28
67	Extraordinary Thermoelectric Performance Realized in n-Type PbTe through Multiphase Nanostructure Engineering. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703148	24	150
66	Effects of topological edge states on the thermoelectric properties of Bi nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2017</b> , 381, 3167-3172	2.3	3
65	Enhanced thermoelectric performance of p-type SnSe doped with Zn. <i>Scripta Materialia</i> , <b>2017</b> , 126, 6-10	5.6	91
64	Thermoelectric Performance for SnSe Hot-Pressed at Different Temperature. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 79-84	1.9	6
63	Revisiting AgCrSe <sub>2</sub> as a promising thermoelectric material. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 23872-8	3.6	32

62	Enhanced thermoelectric performance of highly oriented polycrystalline SnSe based composites incorporated with SnTe nano inclusions. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 689, 87-93	5.7	46
61	Enhanced thermoelectric performance in SnSe based composites with PbTe nano inclusions. <i>Energy</i> , <b>2016</b> , 116, 861-866	7.9	32
60	Enhanced thermoelectric figure of merit in p-type $\text{Zn}_4\text{Sb}_3/\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ nanocomposites. <i>RSC Advances</i> , <b>2016</b> , 6, 12243-12248	3.7	24
59	Simultaneous increase in conductivity and phonon scattering in a graphene nanosheets/(Bi <sub>2</sub> Te <sub>3</sub> ) <sub>0.2</sub> (Sb <sub>2</sub> Te <sub>3</sub> ) <sub>0.8</sub> thermoelectric nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 661, 389-395	5.7	55
58	Enhanced thermoelectric performance of SnSe based composites with carbon black nano inclusions. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 173902	3.4	25
57	Enhanced thermoelectric performance of CuGaTe <sub>2</sub> based composites incorporated with graphite nanosheets. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 073902	3.4	13
56	Enhanced thermoelectric performance of Cu <sub>2</sub> Se/Bi <sub>0.4</sub> Sb <sub>1.6</sub> Te <sub>3</sub> nanocomposites at elevated temperatures. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 062104	3.4	39
55	Realizing High Figure of Merit in Phase-Separated Polycrystalline SnPbSe. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 13647-13654	16.4	162
54	High thermoelectric properties for Sn-doped AgSbSe <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 635, 87-91	3.7	16
53	Enhanced thermoelectric performance through carrier scattering at heterojunction potentials in BiSbTe based composites with Cu <sub>3</sub> SbSe <sub>4</sub> nano inclusions. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 7045-7052	7.1	39
52	Enhanced thermoelectric performance of n-type Bi <sub>2</sub> Se <sub>3</sub> doped with Cu. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 639, 9-14	5.7	37
51	Transport properties and enhanced thermoelectric performance of aluminum doped Cu <sub>3</sub> SbSe <sub>4</sub> . <i>RSC Advances</i> , <b>2015</b> , 5, 31399-31403	3.7	36
50	Enhancement of thermoelectric performance of $\text{Zn}_4\text{Sb}_3$ through resonant distortion of electronic density of states doped with Gd. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11768-11772	13	19
49	Enhanced thermoelectric performance of BiSbTe-based composites incorporated with amorphous Si <sub>3</sub> N <sub>4</sub> nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 34251-34256	3.7	25
48	Electrode activation via vesiculation: improved reversible capacity of $\text{Fe}_2\text{O}_3@\text{C}/\text{MWNT}$ composite anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9682-9688	13	47
47	Enhanced thermoelectric performance of $\text{Zn}_4\text{Sb}_3$ based nanocomposites through combined effects of density of states resonance and carrier energy filtering. <i>Scientific Reports</i> , <b>2015</b> , 5, 17803	4.9	48
46	Thermoelectric anisotropy of n-type Bi <sub>2</sub> Te <sub>3</sub> -Sex prepared by spark plasma sintering. <i>RSC Advances</i> , <b>2015</b> , 5, 43717-43722	3.7	16
45	Thermoelectric properties of homogeneously and non-homogeneously doped CdTe <sub>15/16</sub> M <sub>1/16</sub> (M=N, P, As, Sb) and Cd <sub>15/16</sub> TeM <sub>1/16</sub> (M=Na, K, Rb, Cs). <i>Journal of Physics and Chemistry of Solids</i> , <b>2015</b> , 86, 74-81	3.9	3

44	Optimized thermoelectric properties of AgSbTe <sub>2</sub> through adjustment of fabrication parameters. <i>Electronic Materials Letters</i> , <b>2015</b> , 11, 133-137	2.9	6
43	Enhanced thermoelectric performance of CuGaTe <sub>2</sub> by Gd-doping and Te incorporation. <i>Intermetallics</i> , <b>2015</b> , 60, 45-49	3.5	11
42	Enhanced thermoelectric performance of nanostructured topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2015</b> , 106, 053102	3.4	32
41	Chemical synthesis of nanostructured Cu <sub>2</sub> Se with high thermoelectric performance. <i>RSC Advances</i> , <b>2014</b> , 4, 8638	3.7	70
40	Enhanced thermoelectric performance of CuGaTe <sub>2</sub> based composites incorporated with nanophase Cu <sub>2</sub> Se. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2891	13	41
39	Co-precipitation synthesis of nanostructured Cu <sub>3</sub> SbSe <sub>4</sub> and its Sn-doped sample with high thermoelectric performance. <i>Dalton Transactions</i> , <b>2014</b> , 43, 1888-96	4.3	43
38	Enhanced thermoelectric performance via carrier energy filtering effect in $\text{PbZn}_4\text{Sb}_3$ alloy bulk embedded with (Bi <sub>2</sub> Te <sub>3</sub> ) <sub>0.2</sub> (Sb <sub>2</sub> Te <sub>3</sub> ) <sub>0.8</sub> . <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 053710	2.5	33
37	Enhanced thermoelectric performance of highly dense and fine-grained (Sr <sub>1-x</sub> Gdx)TiO <sub>3</sub> ceramics synthesized by sol-gel process and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 588, 562-567	5.7	17
36	The effects of elements doping on transport and thermoelectric properties of Sr <sub>3</sub> Ti <sub>2</sub> O <sub>7</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>2014</b> , 75, 629-637	3.9	13
35	Enhanced thermoelectric performance of $\text{PbZn}_4\text{Sb}_3$ based composites incorporated with large proportion of nanophase Cu <sub>3</sub> SbSe <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 588, 568-572	5.7	16
34	Enhanced thermoelectric properties of Ag-doped compounds CuAg <sub>x</sub> Ga <sub>1-x</sub> Te <sub>2</sub> (0<x<0.05). <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, 285-288	5.7	23
33	Graphene modified Li-rich cathode material Li[Li <sub>0.26</sub> Ni <sub>0.07</sub> Co <sub>0.07</sub> Mn <sub>0.56</sub> ]O <sub>2</sub> for lithium ion battery. <i>Functional Materials Letters</i> , <b>2014</b> , 07, 1440013	1.2	8
32	Fabrication and thermoelectric properties of n-type (Sr <sub>0.9</sub> Gd <sub>0.1</sub> )TiO <sub>3</sub> oxides. <i>Functional Materials Letters</i> , <b>2014</b> , 07, 1450014	1.2	
31	Enhanced thermoelectric performance of a quintuple layer of Bi <sub>2</sub> Te <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 023706	2.5	28
30	Simultaneous enhancement in thermoelectric power factor and phonon blocking in hierarchical nanostructured $\text{PbZn}_4\text{Sb}_3$ -Cu <sub>3</sub> SbSe <sub>4</sub> . <i>Applied Physics Letters</i> , <b>2014</b> , 104, 013904	3.4	39
29	Effects of bismuth doping on the thermoelectric properties of Cu <sub>3</sub> SbSe <sub>4</sub> at moderate temperatures. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 561, 105-108	5.7	64
28	High temperature thermoelectric properties of Nb-doped ZnO ceramics. <i>Journal of Physics and Chemistry of Solids</i> , <b>2013</b> , 74, 1811-1815	3.9	9
27	A route to phase controllable Cu <sub>2</sub> ZnSn(S(1-x)Se(x)) <sub>4</sub> nanocrystals with tunable energy bands. <i>Scientific Reports</i> , <b>2013</b> , 3, 2733	4.9	68

26	Co-precipitation synthesis of Sn and/or S doped nanostructured $\text{Cu}_3\text{Sb}_{1-x}\text{Sn}_x\text{Se}_4\text{S}_y$ with a high thermoelectric performance. <i>CrystEngComm</i> , <b>2013</b> , 15, 7166	3.3	30
25	Enhanced thermopower and energy filtering effect from synergetic scattering at heterojunction potentials in the thermoelectric composites with semiconducting nano inclusions. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 558, 203-211	5.7	51
24	Thermoelectric properties of hydrothermally synthesized $\text{Bi}_2\text{Te}_3-x\text{S}_x$ nanocrystals. <i>Scripta Materialia</i> , <b>2012</b> , 67, 161-164	5.6	24
23	Preparation and thermoelectric properties of rare-earth-metal-doped $\text{SrO}(\text{SrTiO}_3)_n$ oxides. <i>Procedia Engineering</i> , <b>2012</b> , 27, 103-108		1
22	Transport and thermoelectric properties of n-type Ruddlesden-Popper phase $(\text{Sr}_{1-x}\text{Gd}_x)_3(\text{Ti}_{1-y}\text{Ta}_y)_2\text{O}_7$ oxides. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 415401	3	3
21	Transport and thermoelectric properties of $\text{Sr}_3(\text{Ti}_{0.95}\text{R}_{0.05})_2\text{O}_7$ (R = Ta, Nb, W) oxides. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 124904	2.5	4
20	Pressure-induced structural phase transition in wide-gap molecular solid $\text{CF}_4$ . <i>Chemical Physics Letters</i> , <b>2011</b> , 512, 223-226	2.5	2
19	Thermoelectric Properties of Co-Doped $\text{TiS}_2$ . <i>Journal of Electronic Materials</i> , <b>2011</b> , 40, 980-986	1.9	27
18	Enhanced thermoelectric properties of iron doped compound $(\text{Zn}_{1-x}\text{Fe}_x)_4\text{Sb}_3$ . <i>Intermetallics</i> , <b>2010</b> , 18, 1106-1110	3.5	18
17	Synthesis and thermoelectric properties of $\text{Zn}_4\text{Sb}_3/\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ bulk nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 500, 215-219	5.7	15
16	Thermoelectric properties of nanocrystalline $(\text{Mg}_{1-x}\text{Zn}_x)_3\text{Sb}_2$ isostructural solid solutions fabricated by mechanical alloying. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 165403	3	23
15	The transport and thermoelectric properties of Cd doped compounds $(\text{Cd}_x\text{Ti}_{1-x})_{1+y}\text{S}_2$ . <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 479, 816-820	5.7	15
14	Transport and thermoelectric properties of nanocrystal substitutional semiconductor alloys $(\text{Mg}_{1-x}\text{Cdx})_3\text{Sb}_2$ doped with Ag. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 484, 498-504	5.7	24
13	The effects of high-pressure compression on transport and thermoelectric properties of $\text{TiS}_2$ at low temperatures from 5 to 310 K. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 123704	2.5	6
12	Synthesis of monodispersed nanometer-sized YAG powders by a modified coprecipitation method. <i>Journal of Rare Earths</i> , <b>2008</b> , 26, 674-677	3.7	5
11	Mechanical and magnetic properties of $\text{Ni}/\text{Fe}/\text{Al}_2\text{O}_3$ composites. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 1530-1540	8.6	12
10	Electrical transport and thermoelectric properties of $\text{Y}_{1-x}\text{Ca}_x\text{CoO}_3$ ( $0 \leq x \leq 0.1$ ) at high temperatures. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 083709	2.5	9
9	The effect of Mg substitution for Ti on transport and thermoelectric properties of $\text{TiS}_2$ . <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 073703	2.5	10

8	The electrical and thermal conductivity and thermopower of nickel doped compounds $(\text{Ni}_x\text{Ti}_{1-x})_{1+y}\text{S}_2$ at low temperatures. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 1230-1236	3	9
7	Improved thermoelectric properties of gadolinium intercalated compounds $\text{Gd}_x\text{Ti}_2\text{S}_7$ at the temperatures from 5 to 310 K. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 480-483	2.5	7
6	Electrical transport behavior of $\text{Ca}_3\text{Mn}_x\text{Co}_{4-x}\text{O}_9$ ( $0 \leq x \leq 1.28$ ) at low temperatures. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 053709	2.5	20
5	Enhanced thermoelectric properties of neodymium intercalated compounds $\text{Nd}_x\text{TiS}_2$ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2006</b> , 348, 379-385	2.3	25
4	Fabrication of nanocrystalline $\text{Mg}_3\text{X}_2$ (X=Bi, Sb) with supersaturated solid solubility by mechanical alloying. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2006</b> , 128, 192-200	3.1	11
3	The effect of Mn substitution on thermoelectric properties of $\text{Ca}_3\text{Mn}_x\text{Co}_{4-x}\text{O}_9$ at low temperatures. <i>Solid State Communications</i> , <b>2005</b> , 134, 235-238	1.6	28
2	Enhanced thermoelectric properties of bismuth intercalated compounds $\text{Bi}_x\text{TiS}_2$ . <i>Solid State Communications</i> , <b>2005</b> , 135, 237-240	1.6	21
1	Improving the power factor and figure of merit of p-type $\text{CuSbSe}_2$ via introducing Sb vacancies. <i>Journal of Materials Chemistry C</i> ,	7.1	1