

# Wenjie Xie

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11729586/publications.pdf>

Version: 2024-02-01

42  
papers

3,118  
citations

304743

22  
h-index

276875

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2694  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unique nanostructures and enhanced thermoelectric performance of melt-spun BiSbTe alloys. Applied Physics Letters, 2009, 94, .	3.3	507
2	Identifying the Specific Nanostructures Responsible for the High Thermoelectric Performance of (Bi,Sb) <sub>2</sub> Te <sub>3</sub> Nanocomposites. Nano Letters, 2010, 10, 3283-3289.	9.1	484
3	Preparation and thermoelectric transport properties of high-performance p-type Bi <sub>2</sub> Te <sub>3</sub> with layered nanostructure. Applied Physics Letters, 2007, 90, 012102.	3.3	337
4	Recent Advances in Nanostructured Thermoelectric Half-Heusler Compounds. Nanomaterials, 2012, 2, 379-412.	4.1	287
5	High thermoelectric performance BiSbTe alloy with unique low-dimensional structure. Journal of Applied Physics, 2009, 105, .	2.5	177
6	Enhanced thermoelectric properties of Bi <sub>2</sub> (Te <sub>1-x</sub> Sex) <sub>3</sub> -based compounds as n-type legs for low-temperature power generation. Journal of Materials Chemistry, 2012, 22, 20943.	6.7	147
7	Half-Heusler phases and nanocomposites as emerging high-ZT thermoelectric materials. Journal of Materials Research, 2011, 26, 2795-2802.	2.6	136
8	Enhanced performances of melt spun Bi <sub>2</sub> (Te,Se) <sub>3</sub> for n-type thermoelectric legs. Intermetallics, 2011, 19, 1024-1031.	3.9	125
9	High performance Bi <sub>2</sub> Te <sub>3</sub> nanocomposites prepared by single-element-melt-spinning spark-plasma sintering. Journal of Materials Science, 2013, 48, 2745-2760.	3.7	96
10	Enhancement of the thermoelectric performance of $\hat{\Gamma}^2$ -Zn <sub>4</sub> Sb <sub>3</sub> by in situ nanostructures and minute Cd-doping. Acta Materialia, 2011, 59, 4805-4817.	7.9	70
11	Thermoelectric performance of Nb-doped SrTiO <sub>3</sub> enhanced by reduced graphene oxide and Sr deficiency cooperation. Carbon, 2019, 143, 215-222.	10.3	69
12	Investigation of the sintering pressure and thermal conductivity anisotropy of melt-spun spark-plasma-sintered (Bi,Sb) <sub>2</sub> Te <sub>3</sub> thermoelectric materials. Journal of Materials Research, 2011, 26, 1791-1799.	2.6	58
13	Enhanced thermoelectric performance of $\hat{\Gamma}^2$ -Zn <sub>4</sub> Sb <sub>3</sub> based nanocomposites through combined effects of density of states resonance and carrier energy filtering. Scientific Reports, 2015, 5, 17803.	3.3	58
14	High performance n-type (Bi,Sb) <sub>2</sub> (Te,Se) <sub>3</sub> for low temperature thermoelectric generator. Journal Physics D: Applied Physics, 2010, 43, 335404.	2.8	57
15	Thermoelectric study of crossroads material MnTe via sulfur doping. Journal of Applied Physics, 2014, 115, .	2.5	53
16	The preparation and thermoelectric properties of Ti <sub>0.5</sub> Zr <sub>0.25</sub> Hf <sub>0.25</sub> Co <sub>1-x</sub> Ni <sub>x</sub> Sb half-Heusler compounds. Journal of Applied Physics, 2008, 103, 043711.	2.5	50
17	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. Journal of Materials Chemistry A, 2020, 8, 14822-14828.	10.3	44
18	Improved thermoelectric performance of (Zr <sub>0.3</sub> Hf <sub>0.7</sub> )NiSn half-Heusler compounds by Ta substitution. Journal of Applied Physics, 2014, 115, 183704.	2.5	40

#	ARTICLE	IF	CITATIONS
19	Half-Heusler (TiZrHf)NiSn Unileg Module with High Powder Density. <i>Materials</i> , 2013, 6, 1326-1332.	2.9	33
20	Phase formation, stability, and oxidation in (Ti, Zr, Hf)NiSn half-Heusler compounds. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1259-1266.	1.8	28
21	Tailoring the structure and thermoelectric properties of BaTiO <sub>3</sub> via Eu <sup>2+</sup> substitution. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13469-13480.	2.8	28
22	Synergistic effects of zirconium- and aluminum co-doping on the thermoelectric performance of zinc oxide. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1222-1229.	5.7	25
23	Realizing <i>p</i> -type NbCoSn half-Heusler compounds with enhanced thermoelectric performance via Sc substitution. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 122-130.	6.1	19
24	Redox engineering of strontium titanate-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7317-7330.	10.3	18
25	Tailoring thermoelectric properties of Zr <sub>0.43</sub> Hf <sub>0.57</sub> NiSn half-Heusler compound by defect engineering. <i>Rare Metals</i> , 2020, 39, 659-670.	7.1	17
26	Synthesis and thermoelectric properties of (Ti,Zr,Hf)(Co,Pd)Sb half-Heusler compounds. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 235407.	2.8	16
27	Tuning the thermoelectric properties of polycrystalline FeSb <sub>2</sub> by the in situ formation of Sb/InSb nanoinclusions. <i>Journal of Materials Research</i> , 2011, 26, 1894-1899.	2.6	16
28	Effects of Doping Ni on the Microstructures and Thermoelectric Properties of Co-Excessive NbCoSn Half-Heusler Compounds. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34533-34542.	8.0	16
29	The microstructure network and thermoelectric properties of bulk (Bi,Sb) <sub>2</sub> Te <sub>3</sub> . <i>Applied Physics Letters</i> , 2012, 101, .	3.3	13
30	Compatibility approach for the improvement of oxide thermoelectric converters for industrial heat recovery applications. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	10
31	Band structure modification of the thermoelectric Heusler-phase TiFe <sub>2</sub> Sn via Mn substitution. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18273-18278.	2.8	9
32	Exploring Tantalum as a Potential Dopant to Promote the Thermoelectric Performance of Zinc Oxide. <i>Materials</i> , 2019, 12, 2057.	2.9	9
33	Sustainable paper templated ultrathin, light-weight and flexible niobium carbide based films against electromagnetic interference. <i>Carbon</i> , 2021, 183, 929-939.	10.3	9
34	Upcycling Waste Plastics into Multi-Walled Carbon Nanotube Composites via NiCo <sub>2</sub> O <sub>4</sub> Catalytic Pyrolysis. <i>Catalysts</i> , 2021, 11, 1353.	3.5	9
35	Synergistic effects of Eu and Nb dual substitution on improving the thermoelectric performance of the natural perovskite CaTiO <sub>3</sub> . <i>Materials Today Physics</i> , 2022, 26, 100741.	6.0	9
36	Recent Developments in <sup>12</sup> Zn <sub>4</sub> Sb <sub>3</sub> Based Thermoelectric Compounds. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-15.	2.7	8

#	ARTICLE	IF	CITATIONS
37	Thermoelectric properties of $[\text{Ca}_2\text{CoO}_3]_{1-x}[\text{CoO}_2]_{1+x}$ as a function of Co/Ca defects and $\text{Co}_3\text{O}_4$ inclusions. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	8
38	Band Gap Adjustment in Perovskite-type $\text{Eu}_{1-x}\text{Ca}_x\text{TiO}_3$ via Ammonolysis. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 887-909.	2.8	8
39	Approaching compositional limits of perovskite " type oxides and oxynitrides by synthesis of $\text{Mg}_{0.25}\text{Ca}_{0.65}\text{Y}_{0.1}\text{Ti}(\text{O},\text{N})_3$ , $\text{Ca}_{1-x}\text{Y}_x\text{Zr}(\text{O},\text{N})_3$ ( $0.1 \leq x \leq 0.4$ ), and $\text{Sr}_{1-x}\text{La}_x\text{Zr}(\text{O},\text{N})_3$ ( $0.1 \leq x \leq 0.4$ ). <i>Solid State Sciences</i> , 2016, 54, 7-16.		
40	Solar thermoelectrics: direct solar thermal energy conversion. , 0, , 289-294.		3
41	Synergistic effects of Lanthanum substitution on enhancing the thermoelectric properties of $\text{Pb}_2\text{-Zn}_4\text{Sb}_3$ . <i>Journal of Materiomics</i> , 2016, 2, 273-279.	5.7	3
42	Unravelling the Effects of Calcium Substitution in $\text{BaGd}_2\text{CoO}_5$ Haldane Gap 1D Material and Its Thermoelectric Performance. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13017-13025.	3.1	2