Wenjie Xie

List of Publications by Year in descending order

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304743 276875 3,118 42 22 41 citations h-index g-index papers 42 42 42 2694 all docs docs citations times ranked citing authors

| # | Article | IF | CITATIONS |
|----|--|--------------|-----------|
| 1 | Synergistic effects of Eu and Nb dual substitution on improving the thermoelectric performance of the natural perovskite CaTiO3. Materials Today Physics, 2022, 26, 100741. | 6.0 | 9 |
| 2 | Effects of Doping Ni on the Microstructures and Thermoelectric Properties of Co-Excessive NbCoSn Half-Heusler Compounds. ACS Applied Materials & Samp; Interfaces, 2021, 13, 34533-34542. | 8.0 | 16 |
| 3 | Sustainable paper templated ultrathin, light-weight and flexible niobium carbide based films against electromagnetic interference. Carbon, 2021, 183, 929-939. | 10.3 | 9 |
| 4 | Upcycling Waste Plastics into Multi-Walled Carbon Nanotube Composites via NiCo2O4 Catalytic Pyrolysis. Catalysts, 2021, 11, 1353. | 3.5 | 9 |
| 5 | 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 |
| 6 | Unravelling the Effects of Calcium Substitution in BaGd ₂ CoO ₅ Haldane Gap 1D Material and Its Thermoelectric Performance. Journal of Physical Chemistry C, 2020, 124, 13017-13025. | 3.1 | 2 |
| 7 | Redox engineering of strontium titanate-based thermoelectrics. Journal of Materials Chemistry A, 2020, 8, 7317-7330. | 10.3 | 18 |
| 8 | Band Gap Adjustment in Perovskite-type Eu _{1â^'<i>x</i>} Ca _{ <i>x</i>} 7iO ₃ via Ammonolysis. Zeitschrift Fur Physikalische Chemie, 2020, 234, 887-909. | 2.8 | 8 |
| 9 | Tailoring thermoelectric properties of Zr0.43Hf0.57NiSn half-Heusler compound by defect engineering. Rare Metals, 2020, 39, 659-670. | 7.1 | 17 |
| 10 | Realizing <i>p</i> -type NbCoSn half-Heusler compounds with enhanced thermoelectric performance via Sc substitution. Science and Technology of Advanced Materials, 2020, 21, 122-130. | 6.1 | 19 |
| 11 | Exploring Tantalum as a Potential Dopant to Promote the Thermoelectric Performance of Zinc Oxide. Materials, 2019, 12, 2057. | 2.9 | 9 |
| 12 | Thermoelectric performance of Nb-doped SrTiO3 enhanced by reduced graphene oxide and Sr deficiency cooperation. Carbon, 2019, 143, 215-222. | 10.3 | 69 |
| 13 | Synergistic effects of zirconium- and aluminum co-doping on the thermoelectric performance of zinc oxide. Journal of the European Ceramic Society, 2019, 39, 1222-1229. | 5 . 7 | 25 |
| 14 | Tailoring the structure and thermoelectric properties of BaTiO ₃ via Eu ^{2+<td>2.8</td><td>28</td>} | 2.8 | 28 |
| 15 | Thermoelectric properties of [Ca2CoO3â^î][CoO2]1,62 as a function of Co/Ca defects and Co3O4 inclusions. Journal of Applied Physics, 2017, 121, . | 2.5 | 8 |
| 16 | Band structure modification of the thermoelectric Heusler-phase TiFe ₂ Sn via Mn substitution. Physical Chemistry Chemical Physics, 2017, 19, 18273-18278. | 2.8 | 9 |
| 17 | Synergistic effects of Lanthanum substitution on enhancing the thermoelectric properties of \hat{l}^2 -Zn4Sb3. Journal of Materiomics, 2016, 2, 273-279. | 5.7 | 3 |

Approaching compositional limits of perovskite – type oxides and oxynitrides by synthesis of Mg0.25Ca0.65Y0.1Ti(O,N)3, Ca1–xYxZr(O,N)3 (0.1Ââ‰ÂxÂâ‰Â0.4), and Sr1–xLaxZr(O,N)3 (0.1Ââ‰ÂxÂâ‰Â0.4). Solid State Sciences, 2016, 54, 7-16.

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|----|---|-----|-----------|
| 19 | Enhanced thermoelectric performance of \hat{l}^2 -Zn4Sb3 based nanocomposites through combined effects of density of states resonance and carrier energy filtering. Scientific Reports, 2015, 5, 17803. | 3.3 | 58 |
| 20 | Recent Developments in \hat{l}^2 -Zn4Sb3Based Thermoelectric Compounds. Journal of Nanomaterials, 2015, 2015, 1-15. | 2.7 | 8 |
| 21 | Compatibility approach for the improvement of oxide thermoelectric converters for industrial heat recovery applications. Journal of Applied Physics, 2015, 118, . | 2.5 | 10 |
| 22 | Phase formation, stability, and oxidation in (Ti, Zr, Hf)NiSn halfâ€Heusler compounds. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1259-1266. | 1.8 | 28 |
| 23 | Improved thermoelectric performance of (Zr _{0.3} Hf _{0.7})NiSn half-Heusler compounds by Ta substitution. Journal of Applied Physics, 2014, 115, 183704. | 2.5 | 40 |
| 24 | Thermoelectric study of crossroads material MnTe via sulfur doping. Journal of Applied Physics, 2014, 115, . | 2.5 | 53 |
| 25 | High performance Bi2Te3 nanocomposites prepared by single-element-melt-spinning spark-plasma sintering. Journal of Materials Science, 2013, 48, 2745-2760. | 3.7 | 96 |
| 26 | Half-Heusler (TiZrHf)NiSn Unileg Module with High Powder Density. Materials, 2013, 6, 1326-1332. | 2.9 | 33 |
| 27 | The microstructure network and thermoelectric properties of bulk (Bi,Sb)2Te3. Applied Physics Letters, 2012, 101, . | 3.3 | 13 |
| 28 | Enhanced thermoelectric properties of Bi2(Te1â^'xSex)3-based compounds as n-type legs for low-temperature power generation. Journal of Materials Chemistry, 2012, 22, 20943. | 6.7 | 147 |
| 29 | Recent Advances in Nanostructured Thermoelectric Half-Heusler Compounds. Nanomaterials, 2012, 2, 379-412. | 4.1 | 287 |
| 30 | Half-Heusler phases and nanocomposites as emerging high-ZT thermoelectric materials. Journal of Materials Research, 2011, 26, 2795-2802. | 2.6 | 136 |
| 31 | Investigation of the sintering pressure and thermal conductivity anisotropy of melt-spun spark-plasma-sintered (Bi,Sb) ₂ Te ₃ thermoelectric materials. Journal of Materials Research, 2011, 26, 1791-1799. | 2.6 | 58 |
| 32 | Enhanced performances of melt spun Bi2(Te,Se)3 for n-type thermoelectric legs. Intermetallics, 2011, 19, 1024-1031. | 3.9 | 125 |
| 33 | Enhancement of the thermoelectric performance of \hat{l}^2 -Zn4Sb3 by in situ nanostructures and minute Cd-doping. Acta Materialia, 2011, 59, 4805-4817. | 7.9 | 70 |
| 34 | Tuning the thermoelectric properties of polycrystalline FeSb ₂ by the in situ formation of Sb/InSb nanoinclusions. Journal of Materials Research, 2011, 26, 1894-1899. | 2.6 | 16 |
| 35 | Identifying the Specific Nanostructures Responsible for the High Thermoelectric Performance of (Bi,Sb) ₂ Te ₃ Nanocomposites. Nano Letters, 2010, 10, 3283-3289. | 9.1 | 484 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | Unique nanostructures and enhanced thermoelectric performance of melt-spun BiSbTe alloys. Applied Physics Letters, 2009, 94, . | 3.3 | 507 |
| 38 | Synthesis and thermoelectric properties of (Ti,Zr,Hf)(Co,Pd)Sb half-Heusler compounds. Journal Physics D: Applied Physics, 2009, 42, 235407. | 2.8 | 16 |
| 39 | High thermoelectric performance BiSbTe alloy with unique low-dimensional structure. Journal of Applied Physics, 2009, 105, . | 2.5 | 177 |
| 40 | The preparation and thermoelectric properties of Ti0.5Zr0.25Hf0.25Co1â^xNixSb half-Heusler compounds. Journal of Applied Physics, 2008, 103, 043711. | 2.5 | 50 |
| 41 | Preparation and thermoelectric transport properties of high-performance p-type Bi2Te3 with layered nanostructure. Applied Physics Letters, 2007, 90, 012102. | 3.3 | 337 |
| 42 | Solar thermoelectrics: direct solar thermal energy conversion., 0,, 289-294. | | 3 |