

Jifeng Sun

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

2,038
citations

471509

17
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

2276
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the carrier scattering mechanism to effectively improve the thermoelectric properties. Energy and Environmental Science, 2017, 10, 799-807.	30.8	326
2	Manipulation of ionized impurity scattering for achieving high thermoelectric performance in n-type Mg ₃ Sb ₂ -based materials. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10548-10553.	7.1	267
3	Discovery of ZrCoBi based half Heuslers with high thermoelectric conversion efficiency. Nature Communications, 2018, 9, 2497.	12.8	243
4	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. Nature Communications, 2019, 10, 270.	12.8	227
5	Phase-transition temperature suppression to achieve cubic GeTe and high thermoelectric performance by Bi and Mn codoping. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5332-5337.	7.1	183
6	Electronic, transport, and optical properties of bulk and mono-layer PdSe ₂ . Applied Physics Letters, 2015, 107, .	3.3	170
7	Electronic fitness function for screening semiconductors as thermoelectric materials. Physical Review Materials, 2017, 1, .	2.4	98
8	Thermoelectric properties of AMg ₂ X ₂ , AZn ₂ Sb ₂ (A = Tl, Pb, Bi, Sn, Te, Se, S). Materials Chemistry A, 2017, 5, 8499-8509.	10.3	83
9	Thermoelectric properties of n-type SrTiO ₃ . APL Materials, 2016, 4, .	5.1	71
10	Understanding the asymmetrical thermoelectric performance for discovering promising thermoelectric materials. Science Advances, 2019, 5, eaav5813.	10.3	52
11	Thermoelectric Properties of Mg ₃ Ge ₂ Sn ₂ Tl. Physical Review Applied, 2016, 5, .	3.8	45
12	Perspective: n-type oxide thermoelectrics via visual search strategies. APL Materials, 2016, 4, .	5.1	42
13	Computational modelling of the thermoelectric properties of p-type Zintl compound CaMg ₂ Bi ₂ . Materials Today Physics, 2017, 2, 40-45.	6.0	40
14	Thermoelectric properties of p-type cubic and rhombohedral GeTe. Journal of Applied Physics, 2018, 123, .	2.5	40
15	Single crystal synthesis and magnetism of the BaLn ₂ O ₄ family (Ln=An lanthanide). Progress in Solid State Chemistry, 2014, 42, 23-36.	7.2	33
16	First-principles study of electronic and optical properties of ternary compounds AuBX ₂ (X = S, Se, Te) and AuMTe ₂ (M = Al, In, Ga). Solid State Sciences, 2021, 111, 106508.	3.2	27
17	Achieving high-performance p-type SmMg ₂ Bi ₂ thermoelectric materials through band engineering and alloying effects. Journal of Materials Chemistry A, 2020, 8, 15760-15766.	10.3	21
18	Transport properties of cubic crystalline Ge ₂ Sb ₂ Te ₅ : A potential low-temperature thermoelectric material. Applied Physics Letters, 2015, 106, .	3.3	17

#	ARTICLE	IF	CITATIONS
19	Infrared absorption and visible transparency in heavily doped p-type BaSnO ₃ . Applied Physics Letters, 2017, 110, 051904.	3.3	11
20	Thermoelectric properties of layered NaSbSe ₂ . Journal of Physics Condensed Matter, 2018, 30, 225501.	1.8	10
21	Synthesis and Crystal Structure of the Layered Lanthanide Oxochlorides Ba ₃ Ln ₂ O ₅ Cl ₂ . Inorganic Chemistry, 2018, 57, 1727-1734.	4.0	9
22	Optical and electronic properties of doped p -type CuI: Explanation of transparent conductivity from first principles. Physical Review Materials, 2018, 2, .	2.4	7
23	Ba ₂ TeO as an optoelectronic material: First-principles study. Journal of Applied Physics, 2015, 117, 195705.	2.5	3