

Bingchao Qin

List of Publications by Year in Descending Order

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

26 papers	559 citations	14 h-index	23 g-index
28 ext. papers	924 ext. citations	10.1 avg, IF	4.6 L-index

#	Paper	IF	Citations
26	Enhanced thermoelectric performance in cubic form of SnSe stabilized through enformingly alloying AgSbTe ₂ . <i>Acta Materialia</i> , 2022 , 227, 117681	8.4	1
25	High thermoelectric performance realized through manipulating layered phonon-electron decoupling.. <i>Science</i> , 2022 , 375, 1385-1389	33.3	24
24	Distinct electron and hole transports in SnSe crystals. <i>Science Bulletin</i> , 2022 , 67, 1105-1105	10.6	1
23	Synergistically Enhanced Thermoelectric Properties in n-Type Bi ₆ Cu ₂ Se ₄ O ₆ through Inducing Resonant Levels. <i>Acta Materialia</i> , 2022 , 117930	8.4	1
22	Enhanced thermoelectric performance in SnTe due to the energy filtering effect introduced by Bi ₂ O ₃ . <i>Materials Today Energy</i> , 2022 , 25, 100985	7	5
21	Evaluation on the Thermoelectric Cooling Ability of PbTe. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11813-11818	10.18	0
20	Realizing high thermoelectric properties in p-type polycrystalline SnSe by inducing DOS distortion. <i>Rare Metals</i> , 2021 , 40, 2819-2828	5.5	5
19	Contrasting Cu Roles Lead to High Ranged Thermoelectric Performance of PbS. <i>Advanced Functional Materials</i> , 2021 , 31, 2102185	15.6	14
18	Slowing down the heat in thermoelectrics. <i>Information Materials</i> , 2021 , 3, 755-789	23.1	20
17	Power generation and thermoelectric cooling enabled by momentum and energy multiband alignments. <i>Science</i> , 2021 , 373, 556-561	33.3	79
16	Understanding the electrical transports of p-type polycrystalline SnSe with effective medium theory. <i>Applied Physics Letters</i> , 2021 , 119, 044103	3.4	2
15	Realizing high doping efficiency and thermoelectric performance in n-type SnSe polycrystals via bandgap engineering and vacancy compensation. <i>Materials Today Physics</i> , 2021 , 20, 100452	8	3
14	Band convergence and nanostructure modulations lead to high thermoelectric performance in SnPb _{0.04} Te-y% AgSbTe ₂ . <i>Materials Today Physics</i> , 2021 , 21, 100505	8	7
13	Estimation of the potential performance in p-type SnSe crystals through evaluating weighted mobility and effective mass. <i>Journal of Materiomics</i> , 2020 , 6, 671-676	6.7	23
12	Ultrahigh Average Realized in p-Type SnSe Crystalline Thermoelectrics through Producing Extrinsic Vacancies. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5901-5909	16.4	51
11	High-quality textured SnSe thin films for self-powered, rapid-response photothermoelectric application. <i>Nano Energy</i> , 2020 , 72, 104742	17.1	30
10	An approach of enhancing thermoelectric performance for p-type PbS: Decreasing electronic thermal conductivity. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153453	5.7	11

9	Predicting the Potential Performance in P-Type SnS Crystals via Utilizing the Weighted Mobility and Quality Factor. <i>Chinese Physics Letters</i> , 2020 , 37, 087104	1.8	12
8	Realizing High Thermoelectric Performance in Polycrystalline SnSe via Silver Doping and Germanium Alloying. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2049-2054	6.1	29
7	Comprehensive Investigation on the Thermoelectric Properties of p-Type PbTe-PbSe-PbS Alloys. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900609	6.4	20
6	Pressure-induced enhancement of thermoelectric power factor in pristine and hole-doped SnSe crystals.. <i>RSC Advances</i> , 2019 , 9, 26831-26837	3.7	4
5	Synergistically optimized electrical and thermal transport properties of polycrystalline SnSe via alloying SnS. <i>Journal of Solid State Chemistry</i> , 2019 , 273, 85-91	3.3	15
4	Realizing High Thermoelectric Performance in p-Type SnSe through Crystal Structure Modification. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1141-1149	16.4	91
3	Thermoelectric transport properties of Pb _{1-x} Sn _x Te system. <i>Rare Metals</i> , 2018 , 37, 343-350	5.5	40
2	Approaching Topological Insulating States Leads to High Thermoelectric Performance in n-Type PbTe. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13097-13102	16.4	49
1	Effective dopants in p-type elementary Te thermoelectrics. <i>RSC Advances</i> , 2017 , 7, 17682-17688	3.7	20