

# Bingchao Qin

## List of Publications by Citations

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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	Realizing High Thermoelectric Performance in p-Type SnSe through Crystal Structure Modification. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1141-1149	16.4	91
25	Power generation and thermoelectric cooling enabled by momentum and energy multiband alignments. <i>Science</i> , <b>2021</b> , 373, 556-561	33.3	79
24	Ultrahigh Average Realized in p-Type SnSe Crystalline Thermoelectrics through Producing Extrinsic Vacancies. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 5901-5909	16.4	51
23	Approaching Topological Insulating States Leads to High Thermoelectric Performance in n-Type PbTe. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13097-13102	16.4	49
22	Thermoelectric transport properties of Pb <sub>1-x</sub> Sn <sub>x</sub> Te system. <i>Rare Metals</i> , <b>2018</b> , 37, 343-350	5.5	40
21	High-quality textured SnSe thin films for self-powered, rapid-response photothermoelectric application. <i>Nano Energy</i> , <b>2020</b> , 72, 104742	17.1	30
20	Realizing High Thermoelectric Performance in Polycrystalline SnSe via Silver Doping and Germanium Alloying. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2049-2054	6.1	29
19	High thermoelectric performance realized through manipulating layered phonon-electron decoupling.. <i>Science</i> , <b>2022</b> , 375, 1385-1389	33.3	24
18	Estimation of the potential performance in p-type SnSe crystals through evaluating weighted mobility and effective mass. <i>Journal of Materiomics</i> , <b>2020</b> , 6, 671-676	6.7	23
17	Effective dopants in p-type elementary Te thermoelectrics. <i>RSC Advances</i> , <b>2017</b> , 7, 17682-17688	3.7	20
16	Comprehensive Investigation on the Thermoelectric Properties of p-Type PbTe-PbSe-PbS Alloys. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900609	6.4	20
15	Slowing down the heat in thermoelectrics. <i>Information Materials</i> , <b>2021</b> , 3, 755-789	23.1	20
14	Synergistically optimized electrical and thermal transport properties of polycrystalline SnSe via alloying SnS. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 273, 85-91	3.3	15
13	Contrasting Cu Roles Lead to High Ranged Thermoelectric Performance of PbS. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102185	15.6	14
12	Predicting the Potential Performance in P-Type SnS Crystals via Utilizing the Weighted Mobility and Quality Factor. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 087104	1.8	12
11	An approach of enhancing thermoelectric performance for p-type PbS: Decreasing electronic thermal conductivity. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 820, 153453	5.7	11
10	Band convergence and nanostructure modulations lead to high thermoelectric performance in SnPb <sub>0.04</sub> Te-y% AgSbTe <sub>2</sub> . <i>Materials Today Physics</i> , <b>2021</b> , 21, 100505	8	7

9	Realizing high thermoelectric properties in p-type polycrystalline SnSe by inducing DOS distortion. <i>Rare Metals</i> , <b>2021</b> , 40, 2819-2828	5.5	5
8	Enhanced thermoelectric performance in SnTe due to the energy filtering effect introduced by Bi <sub>2</sub> O <sub>3</sub> . <i>Materials Today Energy</i> , <b>2022</b> , 25, 100985	7	5
7	Pressure-induced enhancement of thermoelectric power factor in pristine and hole-doped SnSe crystals.. <i>RSC Advances</i> , <b>2019</b> , 9, 26831-26837	3.7	4
6	Realizing high doping efficiency and thermoelectric performance in n-type SnSe polycrystals via bandgap engineering and vacancy compensation. <i>Materials Today Physics</i> , <b>2021</b> , 20, 100452	8	3
5	Understanding the electrical transports of p-type polycrystalline SnSe with effective medium theory. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 044103	3.4	2
4	Enhanced thermoelectric performance in cubic form of SnSe stabilized through enformingly alloying AgSbTe <sub>2</sub> . <i>Acta Materialia</i> , <b>2022</b> , 227, 117681	8.4	1
3	Distinct electron and hole transports in SnSe crystals. <i>Science Bulletin</i> , <b>2022</b> , 67, 1105-1105	10.6	1
2	Synergistically Enhanced Thermoelectric Properties in n-Type Bi <sub>6</sub> Cu <sub>2</sub> Se <sub>4</sub> O <sub>6</sub> through Inducing Resonant Levels. <i>Acta Materialia</i> , <b>2022</b> , 117930	8.4	1
1	Evaluation on the Thermoelectric Cooling Ability of PbTe. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 11813-11818	10.18	0