

# Bingchao Qin

## List of Publications by Year in descending order

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28  
papers

1,333  
citations

471477

17  
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501174

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g-index

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all docs

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docs citations

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times ranked

874  
citing authors

#	ARTICLE	IF	CITATIONS
1	Power generation and thermoelectric cooling enabled by momentum and energy multiband alignments. <i>Science</i> , 2021, 373, 556-561.	12.6	270
2	High thermoelectric performance realized through manipulating layered phonon-electron decoupling. <i>Science</i> , 2022, 375, 1385-1389.	12.6	194
3	Realizing High Thermoelectric Performance in p-Type SnSe through Crystal Structure Modification. <i>Journal of the American Chemical Society</i> , 2019, 141, 1141-1149.	13.7	137
4	Ultrahigh Average $\langle ZT \rangle$ Realized in p-Type SnSe Crystalline Thermoelectrics through Producing Extrinsic Vacancies. <i>Journal of the American Chemical Society</i> , 2020, 142, 5901-5909.	13.7	94
5	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.	13.7	77
6	High-quality textured SnSe thin films for self-powered, rapid-response photothermoelectric application. <i>Nano Energy</i> , 2020, 72, 104742.	16.0	58
7	Slowing down the heat in thermoelectrics. <i>Informa <math>\tilde{A}</math> Mater <math>\tilde{A}</math> jly</i> , 2021, 3, 755-789.	17.3	57
8	Thermoelectric transport properties of Pb $\tilde{A}$ Sn $\tilde{A}$ Te $\tilde{A}$ Se system. <i>Rare Metals</i> , 2018, 37, 343-350.	7.1	55
9	Realizing High Thermoelectric Performance in Polycrystalline SnSe via Silver Doping and Germanium Alloying. <i>ACS Applied Energy Materials</i> , 2020, 3, 2049-2054.	5.1	52
10	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.	5.7	38
11	Realizing high thermoelectric properties in p-type polycrystalline SnSe by inducing DOS distortion. <i>Rare Metals</i> , 2021, 40, 2819-2828.	7.1	33
12	Contrasting Cu Roles Lead to High Ranged Thermoelectric Performance of PbS. <i>Advanced Functional Materials</i> , 2021, 31, 2102185.	14.9	33
13	Comprehensive Investigation on the Thermoelectric Properties of p $\tilde{A}$ type PbTe $\tilde{A}$ PbSe $\tilde{A}$ PbS Alloys. <i>Advanced Electronic Materials</i> , 2019, 5, 1900609.	5.1	29
14	Effective dopants in p-type elementary Te thermoelectrics. <i>RSC Advances</i> , 2017, 7, 17682-17688.	3.6	24
15	Synergistically optimized electrical and thermal transport properties of polycrystalline SnSe via alloying SnS. <i>Journal of Solid State Chemistry</i> , 2019, 273, 85-91.	2.9	23
16	An approach of enhancing thermoelectric performance for p-type PbS: Decreasing electronic thermal conductivity. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153453.	5.5	22
17	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.	3.3	19
18	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> , 2021, 21, 100505.	6.0	17

#	ARTICLE	IF	CITATIONS
19	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.	6.0	16
20	Enhanced thermoelectric performance in cubic form of SnSe stabilized through enformatingly alloying AgSbTe <sub>2</sub> . <i>Acta Materialia</i> , 2022, 227, 117681.	7.9	16
21	Distinct electron and hole transports in SnSe crystals. <i>Science Bulletin</i> , 2022, 67, 1105-1107.	9.0	16
22	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> , 2022, 232, 117930.	7.9	13
23	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> , 2022, 25, 100985.	4.7	13
24	Understanding the electrical transports of p-type polycrystalline SnSe with effective medium theory. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	8
25	Pressure-induced enhancement of thermoelectric power factor in pristine and hole-doped SnSe crystals. <i>RSC Advances</i> , 2019, 9, 26831-26837.	3.6	7
26	Evaluation on the Thermoelectric Cooling Ability of PbTe. <i>ACS Applied Energy Materials</i> , 2021, 4, 11813-11818.	5.1	5
27	A promising thermoelectrics In <sub>4</sub> SnSe <sub>4</sub> with a wide bandgap and cubic structure composited by layered SnSe and In <sub>4</sub> Se <sub>3</sub> . <i>Journal of Materiomics</i> , 2022, 8, 982-991.	5.7	5
28	Investigations on the Thermoelectric Transport Properties in the Hole-doped La <sub>2</sub> CuO <sub>4</sub> . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2022, 648, .	1.2	2