Siqi Lin

List of Publications by Year
in descending order

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49 papers	5,690 citations	101384 36 h-index	189595 50 g-index
50 all docs	50 docs citations	50 times ranked	3015 citing authors

#	Article	IF	Citations
1	Low-Symmetry Rhombohedral GeTe Thermoelectrics. Joule, 2018, 2, 976-987.	11.7	402
2	Tellurium as a high-performance elemental thermoelectric. Nature Communications, 2016, 7, 10287.	5.8	369
3	Vacancy-induced dislocations within grains for high-performance PbSe thermoelectrics. Nature Communications, 2017, 8, 13828.	5.8	360
4	Lattice Strain Advances Thermoelectrics. Joule, 2019, 3, 1276-1288.	11.7	333
5	Promoting SnTe as an Ecoâ€Friendly Solution for pâ€PbTe Thermoelectric via Band Convergence and Interstitial Defects. Advanced Materials, 2017, 29, 1605887.	11.1	317
6	Interstitial Point Defect Scattering Contributing to High Thermoelectric Performance in SnTe. Advanced Electronic Materials, 2016, 2, 1600019.	2.6	235
7	Realizing the High Thermoelectric Performance of GeTe by Sb-Doping and Se-Alloying. Chemistry of Materials, 2017, 29, 605-611.	3.2	226
8	Magnetoelectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. Nature Nanotechnology, 2017, 12, 55-60.	15.6	216
9	Low Sound Velocity Contributing to the High Thermoelectric Performance of Ag₈SnSe₆. Advanced Science, 2016, 3, 1600196.	5.6	215
10	GeTe Thermoelectrics. Joule, 2020, 4, 986-1003.	11.7	215
11	High Thermoelectric Performance of Ag9GaSe6 Enabled by Low Cutoff Frequency of Acoustic Phonons. Joule, 2017, 1, 816-830.	11.7	195
12	Band and scattering tuning for high performance thermoelectric Sn1â^'xMnxTe alloys. Journal of Materiomics, 2015, 1, 307-315.	2.8	193
13	Manipulation of Band Structure and Interstitial Defects for Improving Thermoelectric SnTe. Advanced Functional Materials, 2018, 28, 1803586.	7.8	183
14	Rationalizing phonon dispersion for lattice thermal conductivity of solids. National Science Review, 2018, 5, 888-894.	4.6	129
15	Interstitial Defects Improving Thermoelectric SnTe in Addition to Band Convergence. ACS Energy Letters, 2017, 2, 563-568.	8.8	123
16	Extraordinary nâ€Type Mg₃SbBi Thermoelectrics Enabled by Yttrium Doping. Advanced Materials, 2019, 31, e1903387.	11.1	120
17	Thermoelectric Properties of SnS with Na-Doping. ACS Applied Materials & Interfaces, 2017, 9, 34033-34041.	4.0	118
18	Thermoelectric Properties of Cu₂SnSe₄ with Intrinsic Vacancy. Chemistry of Materials, 2016, 28, 6227-6232.	3.2	115

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19	Advances in Environment-Friendly SnTe Thermoelectrics. ACS Energy Letters, 2017, 2, 2349-2355.	8.8	109
20	Vacancy scattering for enhancing the thermoelectric performance of CuGaTe₂ solid solutions. Journal of Materials Chemistry A, 2016, 4, 15464-15470.	5.2	106
21	A record thermoelectric efficiency in tellurium-free modules for low-grade waste heat recovery. Nature Communications, 2022, 13, 237.	5.8	99
22	Promising thermoelectric performance in van der Waals layered SnSe2. Materials Today Physics, 2017, 3, 127-136.	2.9	95
23	Single parabolic band behavior of thermoelectric p-type CuGaTe₂. Journal of Materials Chemistry C, 2016, 4, 209-214.	2.7	94
24	Realizing a 14% single-leg thermoelectric efficiency in GeTe alloys. Science Advances, 2021, 7, .	4.7	91
25	Crystal Structure Induced Ultralow Lattice Thermal Conductivity in Thermoelectric Ag₉AlSe₆. Advanced Energy Materials, 2018, 8, 1800030.	10.2	88
26	Electronic quality factor for thermoelectrics. Science Advances, 2020, 6, .	4.7	88
27	Substitutional defects enhancing thermoelectric CuGaTe₂. Journal of Materials Chemistry A, 2017, 5, 5314-5320.	5.2	87
28	Revelation of Inherently High Mobility Enables Mg₃Sb₂ as a Sustainable Alternative to nâ€Bi₂Te₃ Thermoelectrics. Advanced Science, 2019, 6, 1802286.	5.6	71
29	Manipulation of Solubility and Interstitial Defects for Improving Thermoelectric SnTe Alloys. ACS Energy Letters, 2018, 3, 1969-1974.	8.8	69
30	Thermoelectric properties of GeSe. Journal of Materiomics, 2016, 2, 331-337.	2.8	67
31	An over 10% module efficiency obtained using non-Bi₂Te₃ thermoelectric materials for recovering heat of <600 K. Energy and Environmental Science, 2021, 14, 6506-6513.	15.6	66
32	Efficient Sc-Doped Mg_{3.05â€“x}Sc_xSbBi Thermoelectrics Near Room Temperature. Chemistry of Materials, 2019, 31, 8987-8994.	3.2	55
33	Promising Thermoelectric Ag_{5â^'Î´}Te₃ with Intrinsic Low Lattice Thermal Conductivity. ACS Energy Letters, 2017, 2, 2470-2477.	8.8	54
34	Performance optimization and single parabolic band behavior of thermoelectric MnTe. Journal of Materials Chemistry A, 2017, 5, 19143-19150.	5.2	53
35	Sb induces both doping and precipitation for improving the thermoelectric performance of elemental Te. Inorganic Chemistry Frontiers, 2017, 4, 1066-1072.	3.0	45
36	Compromise between band structure and phonon scattering in efficient n-Mg3Sb2-Bi thermoelectrics. Materials Today Physics, 2021, 18, 100362.	2.9	41

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37	Solute manipulation enabled band and defect engineering for thermoelectric enhancements of SnTe. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 571-581.	8.5	36
38	Fabrication and Thermoelectric Properties of Single-Crystal Argyrodite Ag₈SnSe₆. Chemistry of Materials, 2019, 31, 2603-2610.	3.2	35
39	Thermoelectric properties of n-type Nb-doped Ag8SnSe6. Journal of Applied Physics, 2016, 119, .	1.1	27
40	Considering the Role of Ion Transport in Diffusonâ€Đominated Thermal Conductivity. Advanced Energy Materials, 2022, 12, .	10.2	27
41	Manipulation of Band Degeneracy and Lattice Strain for Extraordinary PbTe Thermoelectrics. Research, 2020, 2020, 8151059.	2.8	23
42	Near-room-temperature rhombohedral Ge1-Pb Te thermoelectrics. Materials Today Physics, 2020, 15, 100260.	2.9	20
43	MnTe2 as a novel promising thermoelectric material. Journal of Materiomics, 2018, 4, 215-220.	2.8	19
44	Thermoelectric p-Type Ag₉GaTe₆ with an Intrinsically Low Lattice Thermal Conductivity. ACS Applied Energy Materials, 2020, 3, 1892-1898.	2.5	19
45	Nearly isotropic transport properties in anisotropically structured n-type single-crystalline Mg3Sb2. Materials Today Physics, 2021, 21, 100508.	2.9	17
46	Thermoelectric properties of Cu4Ge3Se5 with an intrinsic disordered zinc blende structure. Journal of Materials Chemistry A, 2020, 8, 3431-3437.	5.2	9
47	Thermoelectric properties of Ni-doped BaSi₂. Functional Materials Letters, 2016, 09, 1650017.	0.7	5
48	Evaluation of Thermoelectric Properties of Ag_{0.366}Sb_{0.558}Te. Annalen Der Physik, 2020, 532, 1900561.	0.9	5
49	Thermoelectric Transport Properties of TmAg Cu1-Te2 solid solutions. Journal of Materiomics, 2021, 7, 886-893.	2.8	3