Wen Li

List of Publications by Year in descending order

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Version: 2024-02-01

89 papers	5,992 citations	76196 40 h-index	71532 76 g-index
91 all docs	91 docs citations	91 times ranked	3269 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	Lattice Dislocations Enhancing Thermoelectric PbTe in Addition to Band Convergence. Advanced Materials, 2017, 29, 1606768.	11.1	365
4	Vacancy-induced dislocations within grains for high-performance PbSe thermoelectrics. Nature Communications, 2017, 8, 13828.	5.8	360
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	Low Sound Velocity Contributing to the High Thermoelectric Performance of Ag₈SnSe₆. Advanced Science, 2016, 3, 1600196.	5.6	215
8	GeTe Thermoelectrics. Joule, 2020, 4, 986-1003.	11.7	215
9	High Thermoelectric Performance of Ag9GaSe6 Enabled by Low Cutoff Frequency of Acoustic Phonons. Joule, 2017, 1, 816-830.	11.7	195
10	Band and scattering tuning for high performance thermoelectric Sn1â^'xMnxTe alloys. Journal of Materiomics, 2015, 1, 307-315.	2.8	193
11	Manipulation of Band Structure and Interstitial Defects for Improving Thermoelectric SnTe. Advanced Functional Materials, 2018, 28, 1803586.	7.8	183
12	Interstitial Defects Improving Thermoelectric SnTe in Addition to Band Convergence. ACS Energy Letters, 2017, 2, 563-568.	8.8	123
13	Extraordinary nâ€Type Mg₃SbBi Thermoelectrics Enabled by Yttrium Doping. Advanced Materials, 2019, 31, e1903387.	11.1	120
14	Thermoelectric Properties of SnS with Na-Doping. ACS Applied Materials & Interfaces, 2017, 9, 34033-34041.	4.0	118
15	Thermoelectric Properties of Cu₂SnSe₄ with Intrinsic Vacancy. Chemistry of Materials, 2016, 28, 6227-6232.	3.2	115
16	Advances in Environment-Friendly SnTe Thermoelectrics. ACS Energy Letters, 2017, 2, 2349-2355.	8.8	109
17	Vacancy scattering for enhancing the thermoelectric performance of CuGaTe₂ solid solutions. Journal of Materials Chemistry A, 2016, 4, 15464-15470.	5.2	106
18	A record thermoelectric efficiency in tellurium-free modules for low-grade waste heat recovery. Nature Communications, 2022, 13, 237.	5.8	99

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19	Promising thermoelectric performance in van der Waals layered SnSe2. Materials Today Physics, 2017, 3, 127-136.	2.9	95
20	Single parabolic band behavior of thermoelectric p-type CuGaTe₂. Journal of Materials Chemistry C, 2016, 4, 209-214.	2.7	94
21	Realizing a 14% single-leg thermoelectric efficiency in GeTe alloys. Science Advances, 2021, 7, .	4.7	91
22	Crystal Structure Induced Ultralow Lattice Thermal Conductivity in Thermoelectric Ag₉AlSe₆. Advanced Energy Materials, 2018, 8, 1800030.	10.2	88
23	Substitutional defects enhancing thermoelectric CuGaTe₂. Journal of Materials Chemistry A, 2017, 5, 5314-5320.	5.2	87
24	Thermoelectric Enhancements in PbTe Alloys Due to Dislocationâ€Induced Strains and Converged Bands. Advanced Science, 2020, 7, 1902628.	5.6	78
25	Revelation of Inherently High Mobility Enables Mg₃Sb₂ as a Sustainable Alternative to nâ€Bi₂Te₃ Thermoelectrics. Advanced Science, 2019, 6, 1802286.	5.6	71
26	In vivo degradation and bone response of a composite coating on Mgâ€“Znâ€“Ca alloy prepared by microarc oxidation and electrochemical deposition. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 533-543.	1.6	70
27	Manipulation of Solubility and Interstitial Defects for Improving Thermoelectric SnTe Alloys. ACS Energy Letters, 2018, 3, 1969-1974.	8.8	69
28	Cu Interstitials Enable Carriers and Dislocations for Thermoelectric Enhancements in n-PbTe0.75Se0.25. CheM, 2020, 6, 523-537.	5.8	69
29	Thermoelectric properties of GeSe. Journal of Materiomics, 2016, 2, 331-337.	2.8	67
30	Advances in Thermoelectric Mg₃Sb₂ and Its Derivatives. Small Methods, 2018, 2, 1800022.	4.6	66
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	Significant band engineering effect of YbTe for high performance thermoelectric PbTe. Journal of Materials Chemistry C, 2015, 3, 12410-12417.	2.7	61
33	Efficient Sc-Doped Mg_{3.05â€“x}Sc_xSbBi Thermoelectrics Near Room Temperature. Chemistry of Materials, 2019, 31, 8987-8994.	3.2	55
34	Performance optimization and single parabolic band behavior of thermoelectric MnTe. Journal of Materials Chemistry A, 2017, 5, 19143-19150.	5.2	53
35	Thermally insulative thermoelectric argyrodites. Materials Today, 2021, 48, 198-213.	8.3	52
36	Preparation and in vitro degradation of the composite coating with high adhesion strength on biodegradable Mgâ€“Znâ€“Ca alloy. Materials Characterization, 2011, 62, 1158-1165.	1.9	50

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37	Sb induces both doping and precipitation for improving the thermoelectric performance of elemental Te. Inorganic Chemistry Frontiers, 2017, 4, 1066-1072.	3.0	45
38	Substitutions and dislocations enabled extraordinary n-type thermoelectric PbTe. Materials Today Physics, 2021, 17, 100355.	2.9	44
39	Alloying for orbital alignment enables thermoelectric enhancement of EuCd₂Sb₂. Journal of Materials Chemistry A, 2019, 7, 12773-12778.	5.2	42
40	Thermoelectric Transport Properties of Cd_xBi_yGe_{1â€“xâ€“y}Te Alloys. ACS Applied Materials & Interfaces, 2018, 10, 39904-39911.	4.0	41
41	Compromise between band structure and phonon scattering in efficient n-Mg3Sb2-Bi thermoelectrics. Materials Today Physics, 2021, 18, 100362.	2.9	41
42	Single parabolic band transport in p-type EuZn₂Sb₂ thermoelectrics. Journal of Materials Chemistry A, 2017, 5, 24185-24192.	5.2	38
43	Band and Phonon Engineering for Thermoelectric Enhancements of Rhombohedral GeTe. ACS Applied Materials & Interfaces, 2019, 11, 30756-30762.	4.0	37
44	Solute manipulation enabled band and defect engineering for thermoelectric enhancements of SnTe. InformaÄ‹nÃ-MateriÃ¡ly, 2019, 1, 571-581.	8.5	36
45	Extraordinary Role of Bi for Improving Thermoelectrics in Low-Solubility SnTeâ€“CdTe Alloys. ACS Applied Materials & Interfaces, 2019, 11, 26093-26099.	4.0	35
46	Fabrication and Thermoelectric Properties of Single-Crystal Argyrodite Ag₈SnSe₆. Chemistry of Materials, 2019, 31, 2603-2610.	3.2	35
47	N-grams based feature selection and text representation for Chinese Text Classification. International Journal of Computational Intelligence Systems, 2009, 2, 365-374.	1.6	27
48	Manipulation of Band Degeneracy and Lattice Strain for Extraordinary PbTe Thermoelectrics. Research, 2020, 2020, 8151059.	2.8	23
49	First-principles study on band structures and electrical transports of doped-SnTe. Journal of Materiomics, 2016, 2, 158-164.	2.8	22
50	Corrosion behavior of TiO2 films on Mgâ€“Zn alloy in simulated body fluid. Applied Surface Science, 2011, 257, 4464-4467.	3.1	21
51	Transport properties of p-type CaMg2Bi2 thermoelectrics. Journal of Materiomics, 2019, 5, 567-573.	2.8	21
52	Near-room-temperature rhombohedral Ge1-Pb Te thermoelectrics. Materials Today Physics, 2020, 15, 100260.	2.9	20
53	Na-doping enables both dislocations and holes in EuMg₂Sb₂ for thermoelectric enhancements. Journal of Materials Chemistry A, 2020, 8, 8345-8351.	5.2	20
54	MnTe2 as a novel promising thermoelectric material. Journal of Materiomics, 2018, 4, 215-220.	2.8	19

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55	Ternary thermoelectric AB2C2 Zintls. Journal of Alloys and Compounds, 2020, 821, 153497.	2.8	19
56	Thermoelectric p-Type Ag₉GaTe₆ with an Intrinsically Low Lattice Thermal Conductivity. ACS Applied Energy Materials, 2020, 3, 1892-1898.	2.5	19
57	Manipulation of hole and band for thermoelectric enhancements in SrCd2Sb2 Zintl compound. Chemical Engineering Journal, 2021, 420, 130530.	6.6	19
58	Band manipulation for high thermoelectric performance in SnTe through heavy CdSe-alloying. Journal of Materiomics, 2019, 5, 111-117.	2.8	17
59	Nearly isotropic transport properties in anisotropically structured n-type single-crystalline Mg3Sb2. Materials Today Physics, 2021, 21, 100508.	2.9	17
60	Ultralow and glass-like lattice thermal conductivity in crystalline BaAg2Te2: Strong fourth-order anharmonicity and crucial diffusive thermal transport. Materials Today Physics, 2021, 21, 100487.	2.9	17
61	Promising cubic MnGeTe2 thermoelectrics. Science China Materials, 2019, 62, 379-388.	3.5	16
62	Low lattice thermal conductivity by alloying SnTe with AgSbTe2 and CaTe/MnTe. Applied Physics Letters, 2019, 115, .	1.5	15
63	Thermoelectric properties of (GeTe)1-x[(Ag2Te)0.4(Sb2Te3)0.6]x alloys. Rare Metals, 2022, 41, 921-930.	3.6	15
64	Thermoelectric properties of p-type MnSe. Journal of Alloys and Compounds, 2019, 789, 953-959.	2.8	14
65	Ultralow lattice thermal conductivity enables high thermoelectric performance in BaAg2Te2 alloys. Materials Today Physics, 2022, 22, 100591.	2.9	14
66	Transport Properties of CdSb Alloys with a Promising Thermoelectric Performance. ACS Applied Materials & Interfaces, 2019, 11, 27098-27103.	4.0	12
67	Manipulation of Defects for Highâ€Performance Thermoelectric PbTeâ€Based Alloys. Small Structures, 2021, 2, 2100016.	6.9	10
68	Characterization and corrosion properties of Tiâ€O/HA composite coatings on Mgâ€Zn alloy. Surface and Interface Analysis, 2011, 43, 1575-1580.	0.8	9
69	Syntheses and structural characterizations of CrSi2 nanostructures using Si substrates under CrCl2 vapor. Journal of Crystal Growth, 2013, 365, 11-18.	0.7	9
70	Thermoelectric properties of Cu4Ge3Se5 with an intrinsic disordered zinc blende structure. Journal of Materials Chemistry A, 2020, 8, 3431-3437.	5.2	9
71	Shape modification of Si nanowires by using faceted silicide catalysts nucleated in Au-Si catalyst solution during the growth. AIP Advances, 2013, 3, .	0.6	8
72	Single parabolic band behavior of thermoelectric p-type Cu4Mn2Te4. Journal of Alloys and Compounds, 2018, 753, 93-99.	2.8	8

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73	Step-coordination algorithm of traffic control based on multi-agent system. International Journal of Automation and Computing, 2009, 6, 308-313.	4.5	7
74	Synthesis of Si nanowires using Au catalyst accompanied with silicide nanoparticle formation. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1789-1792.	0.8	7
75	Growth of MnSi1.7 Layers on MnSi Substrate by Molten Salt Method. Journal of Electronic Materials, 2014, 43, 1487-1491.	1.0	5
76	Thermoelectric properties of Ni-doped BaSi₂. Functional Materials Letters, 2016, 09, 1650017.	0.7	5
77	Evaluation of Thermoelectric Properties of Ag_{0.366}Sb_{0.558}Te. Annalen Der Physik, 2020, 532, 1900561.	0.9	5
78	Preparation and thermoelectric properties of ZnTe-doped Bi0.5Sb1.5Te3 single crystal. Materials Letters, 2021, 292, 129619.	1.3	5
79	Synthesis and structural control of silicon and silicide nanowires/microrods using metal chloride sources. Japanese Journal of Applied Physics, 2015, 54, 07JD02.	0.8	4
80	Evaluation of thermoelectric CdSnAs2 with intrinsically low effective mass. Journal of Alloys and Compounds, 2019, 809, 151772.	2.8	4
81	Thermoelectric Transport Properties of TmAg Cu1-Te2 solid solutions. Journal of Materiomics, 2021, 7, 886-893.	2.8	3
82	Synthesis of Mg2 Si and MnSi1.7 nanowire bundles using Si nanowire arrays as templates. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1800-1803.	0.8	2
83	Synthesis of Mg2Si nanorod arrays by the heat treatment of Si nanorod arrays under Mg vapor. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1796-1799.	0.8	2
84	Facile template-free preparation of silver-coated Cu3SbS4 hollow spheres with enhanced photoelectric properties. Journal of Materials Chemistry C, 2021, 10, 301-311.	2.7	2
85	SYNTHESES OF NANOSTRUCTURE BUNDLES BASED ON SEMICONDUCTING METAL SILICIDES. Functional Materials Letters, 2013, 06, 1340011.	0.7	1
86	Syntheses and Structural Control of Silicide, Oxide and Metallic Nano-Structured Materials. Solid State Phenomena, 0, 213, 35-41.	0.3	1
87	SnTe-Based Thermoelectrics. , 2019, , 63-81.		1
88	Pressure and doping effects on the structural stability of thermoelectric BaAg₂Te₂. Journal of Physics Condensed Matter, 2022, 34, 065401.	0.7	0
89	Multiband transport enables thermoelectric enhancements in the SrMg₂Bi₂ compound. Journal of Applied Physics, 2022, 131, 135101.	1.1	0