

Jingtao Xu

List of Publications by Year in descending order

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84
papers

2,506
citations

172207

29
h-index

214527

47
g-index

85
all docs

85
docs citations

85
times ranked

2242
citing authors

#	ARTICLE	IF	CITATIONS
1	Ba ₉ Lu ₂ Si ₆ O ₂₄ :Ce ³⁺ : An Efficient Green Phosphor with High Thermal and Radiation Stability for Solid-State Lighting. <i>Advanced Optical Materials</i> , 2015, 3, 1096-1101.	3.6	160
2	Valence band engineering and thermoelectric performance optimization in SnTe by Mn-alloying via a zone-melting method. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19974-19979.	5.2	141
3	Enhanced thermoelectric performance in p-type polycrystalline SnSe benefiting from texture modulation. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1201-1207.	2.7	125
4	Optimization of thermoelectric properties in n-type SnSe doped with BiCl ₃ . <i>Applied Physics Letters</i> , 2016, 108, .	1.5	103
5	Direct observation of vast off-stoichiometric defects in single crystalline SnSe. <i>Nano Energy</i> , 2017, 35, 321-330.	8.2	101
6	Manipulating Band Convergence and Resonant State in Thermoelectric Material SnTe by Mn-In Codoping. <i>ACS Energy Letters</i> , 2017, 2, 1203-1207.	8.8	98
7	Band engineering and improved thermoelectric performance in M-doped SnTe (M = Mg, Mn, Cd, and Hg). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7141-7147.	1.3	86
8	Enhanced thermoelectric performance through crystal field engineering in transition metal-doped GeTe. <i>Materials Today Physics</i> , 2019, 9, 100094.	2.9	85
9	Designing band engineering for thermoelectrics starting from the periodic table of elements. <i>Materials Today Physics</i> , 2018, 7, 35-44.	2.9	75
10	Enhanced thermopower in rock-salt SnTe-CdTe from band convergence. <i>RSC Advances</i> , 2016, 6, 32189-32192.	1.7	72
11	Radiative sky cooling-assisted thermoelectric cooling system for building applications. <i>Energy</i> , 2020, 190, 116322.	4.5	66
12	Cu Intercalation and Br Doping to Thermoelectric SnSe ₂ Lead to Ultrahigh Electron Mobility and Temperature-Independent Power Factor. <i>Advanced Functional Materials</i> , 2020, 30, 1908405.	7.8	53
13	Energy saving analysis of a transparent radiative cooling film for buildings with roof glazing. <i>Energy and Built Environment</i> , 2021, 2, 214-222.	2.9	50
14	Enhanced thermoelectric figure of merit in p-type Bi _{0.48} Sb _{1.52} Te ₃ alloy with WSe ₂ addition. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8512.	5.2	49
15	Texturing degree boosts thermoelectric performance of silver-doped polycrystalline SnSe. <i>NPG Asia Materials</i> , 2017, 9, e426-e426.	3.8	49
16	Improving Thermoelectric Performance of In-MgAgSb by Theoretical Band Engineering Design. <i>Advanced Energy Materials</i> , 2017, 7, 1700076.	10.2	46
17	Optimizing the thermoelectric performance of In-Cd codoped SnTe by introducing Sn vacancies. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7504-7509.	2.7	46
18	Thermoelectric properties of In-Hg co-doping in SnTe: Energy band engineering. <i>Journal of Materiomics</i> , 2018, 4, 62-67.	2.8	44

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19	Charge Transport in Thermoelectric SnSe Single Crystals. ACS Energy Letters, 2018, 3, 689-694.	8.8	41
20	CaAlSiN ₃ :Eu ²⁺ /Lu ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphor-in-glass film with high luminous efficiency and CRI for laser diode lighting. Journal of Materials Chemistry C, 2021, 9, 3522-3530.	2.7	41
21	Enhanced thermoelectric performance in n-type polycrystalline SnSe by PbBr ₂ doping. RSC Advances, 2017, 7, 17906-17912.	1.7	40
22	Nontrivial thermoelectric behavior in cubic SnSe driven by spin-orbit coupling. Nano Energy, 2018, 51, 649-655.	8.2	37
23	Synergistically Optimized Thermoelectric Performance in Bi _{0.48} Sb _{1.52} Te ₃ by Hot Deformation and Cu Doping. ACS Applied Energy Materials, 2019, 2, 6714-6719.	2.5	37
24	Thermoelectric (Bi,Sb) ₂ Te ₃ ∕Ge _{0.5} Mn _{0.5} Te composites with excellent mechanical properties. Journal of Materials Chemistry A, 2019, 7, 9241-9246.	5.2	37
25	Ultralow Lattice Thermal Conductivity in SnTe by Manipulating the Electron-Phonon Coupling. Journal of Physical Chemistry C, 2019, 123, 15996-16002.	1.5	36
26	Band engineering and crystal field screening in thermoelectric Mg ₃ Sb ₂ . Journal of Materials Chemistry A, 2019, 7, 8922-8928.	5.2	36
27	Synthesis of SnTe/AgSbSe ₂ nanocomposite as a promising lead-free thermoelectric material. Journal of Materiomics, 2016, 2, 165-171.	2.8	31
28	Synergistic Optimization of Thermoelectric Performance in P-Type Bi _{0.48} Sb _{1.52} Te ₃ /Graphene Composite. Energies, 2016, 9, 236.	1.6	29
29	Study on Thermoelectric Properties of Polycrystalline SnSe by Ge Doping. Journal of Electronic Materials, 2017, 46, 3182-3186.	1.0	29
30	Low-temperature heat capacity of $\text{Sr}_{1-x}\text{Ca}_x\text{Mn}_2\text{O}_8$. Physical Review B, 2010, 82, .		
31	$\text{Ca}_{1-x}\text{Sr}_x\text{Mn}_2\text{O}_8$. Physical Review B, 2010, 82, .	1.1	28
32	Single crystal growth of Sn _{0.97} Ag _{0.03} Se by a novel horizontal Bridgman method and its thermoelectric properties. Journal of Crystal Growth, 2017, 460, 112-116.	0.7	28
33	Coexistence of Dirac-cone states and superconductivity in iron pnictide Ba(Fe _{1-x} Ru _x As) ₂ . Physical Review B, 2011, 84, .	1.1	27
34	Thermoelectric properties of textured polycrystalline Na _{0.03} Sn _{0.97} Se enhanced by hot deformation. Journal of Materials Chemistry A, 2018, 6, 23730-23735.	5.2	27
35	Enhanced thermoelectric performance of N-type eco-friendly material Cu _{1-x} Ag _x FeS ₂ (x=0~0.14) via bandgap tuning. Journal of Alloys and Compounds, 2019, 809, 151717.	2.8	26
36	Achieving Enhanced Thermoelectric Performance in (SnTe) _{1-x} (Sb ₂ Te ₃) _x and (SnTe) _{1-y} (Sb ₂ Se ₃) _y Synthesized via Solvothermal Reaction and Sintering. ACS Applied Materials & Interfaces, 2020, 12, 44805-44814.	4.0	26

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37	Realizing high figure of merit plateau in Ge Bi Te via enhanced Bi solution and Ge precipitation. Journal of Alloys and Compounds, 2019, 805, 831-839.	2.8	25
38	Effects of AgBiSe ₂ on thermoelectric properties of SnTe. Chemical Engineering Journal, 2020, 390, 124585.	6.6	24
39	Improved thermoelectric performance in PbSe- ϵ -AgSbSe ₂ by manipulating the spin-orbit coupling effects. Nano Energy, 2020, 78, 105232.	8.2	22
40	Improving cabin thermal environment of parked vehicles under direct sunlight using a daytime radiative cooling cover. Applied Thermal Engineering, 2021, 190, 116776.	3.0	21
41	Optimized orientation and enhanced thermoelectric performance in Sn _{0.97} Na _{0.03} Se with Te addition. Journal of Materials Chemistry C, 2019, 7, 2653-2658.	2.7	19
42	Realizing high thermoelectric performance in n-type SnSe polycrystals via (Pb, Br) co-doping and multi-nanoprecipitates synergy. Journal of Alloys and Compounds, 2021, 864, 158401.	2.8	19
43	Electron-Phonon Interactions of Si_{100} and Ge_{100} Superconductors with Bi Atoms Inside. Physical Review Letters, 2019, 125, 176402.	2.9	18
44	Evidence for line nodes in the energy gap of the overdoped Ba(Fe _{1-x} Cox) ₂ As ₂ from low-temperature specific heat measurements. Physical Review B, 2011, 84, .	1.1	18
45	Microstructure engineering beyond SnSe _{1-x} S _x solid solution for high thermoelectric performance. Journal of Materiomics, 2018, 4, 321-328.	2.8	18
46	Structure and thermoelectric properties of the n-type clathrate Ba ₈ Cu _{5.1} Ge _{40.2} Sn _{0.7} . Journal of Materials Chemistry A, 2015, 3, 19100-19106.	5.2	17
47	Enhanced thermoelectric performance in p-type polycrystalline SnSe by Cu doping. Journal of Materials Science: Materials in Electronics, 2018, 29, 18727-18732.	1.1	17
48	A far-red-emitting (Gd,Y) ₃ (Ga,Al) ₅ O ₁₂ :Mn ²⁺ ceramic phosphor with enhanced thermal stability for plant cultivation. Journal of the American Ceramic Society, 2020, 103, 5157-5168.	1.9	17
49	Pressure Effect on Superconductivity and Magnetism in \pm -FeSe _x . Journal of Superconductivity and Novel Magnetism, 2009, 22, 667-670.	0.8	16
50	Colored radiative cooling coatings using phosphor dyes. Materials Today Nano, 2022, 19, 100239.	2.3	15
51	Energy saving potential of a fresh air pre-cooling system using radiative sky cooling. Building Simulation, 2022, 15, 167-178.	3.0	14
52	Enhanced power factor in the promising thermoelectric material SnPb _x Te prepared via zone-melting. RSC Advances, 2015, 5, 59379-59383.	1.7	13
53	Synergistic optimization of electrical and thermal transport in n-type Bi-doped PbTe by introducing coherent nanophase Cu _{1.75} Te. Journal of Materiomics, 2021, 7, 146-155.	2.8	13
54	Performance evaluation of radiative cooling for commercial-scale warehouse. Materials Today Energy, 2022, 24, 100927.	2.5	13

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55	Electron and Hole Injection via Charge Transfer at the Topological Insulator $\text{Bi}_{2-x}\text{Sb}_x\text{Te}_3$ – Se_y Organic Molecule Interface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3533-3538.		12
56	Heat Capacity Study on Anharmonicity in $\text{Ae}_8\text{Ga}_{16}\text{Ge}_{30}$ ($\text{Ae}=\text{Sr}$ and Ba). <i>Journal of Electronic Materials</i> , 2011, 40, 879-883.	1.0	11
57	Suppression of backward scattering of Dirac fermions in iron pnictides $\text{Ba}(\text{Fe}_{1-x}\text{Ru}_x\text{As})_2$. <i>Physical Review B</i> , 2012, 86, .	1.1	11
58	Texture Development and Grain Alignment of Hot-Pressed Tetradymite $\text{Bi}_{0.48}\text{Sb}_{1.52}\text{Te}_3$ via Powder Molding. <i>Energy Technology</i> , 2019, 7, 1900814.	1.8	11
59	Low-Temperature Physical Properties of $\text{Ba}_8\text{Ni}_x\text{Ge}_{46-x}$ ($x=3, 4, 6$). <i>Journal of Electronic Materials</i> , 2012, 41, 1177-1180.	1.0	10
60	Stabilization of Thermoelectric Properties of the $\text{Cu}/\text{Bi}_{0.48}\text{Sb}_{1.52}\text{Te}_3$ Composite for Advantageous Power Generation. <i>Journal of Electronic Materials</i> , 2017, 46, 2746-2751.	1.0	9
61	Investigation on structure and thermoelectric properties in p-type $\text{Bi}_{0.48}\text{Sb}_{1.52}\text{Te}_3$ via PbTe incorporating. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7701-7706.	1.1	9
62	Heat capacity studies on rattling vibrations in BaTMGe type I clathrates. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1521-1523.	1.9	8
63	Systematic studies on anharmonicity of rattling phonons in type-I clathrates by low-temperature heat capacity measurements. <i>Physical Review B</i> , 2014, 89, .	1.1	8
64	Phase Tuning for Enhancing the Thermoelectric Performance of Solution-Synthesized Cu_2S . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39541-39549.	4.0	8
65	Coexistence and competition between superconductivity and magnetism in $\text{La}_{2-x}\text{Sr}_x\text{Cu}_{0.94}\text{M}_{0.06}\text{O}_4$ ($\text{M}=\text{Mn}$ and Ru). <i>Journal of Applied Physics</i> , 2008, 104, 063914.	1.1	7
66	Different electro-magnetic contributions between W^{4+} and Mn^{2+} in $\text{Cu}_2\text{M}_x\text{S}_4$ ($\text{M}=\text{W}/\text{Mn}$) system. <i>Solid State Communications</i> , 2009, 149, 471-475.	0.9	7
67	Unification of the low-energy excitation peaks in the heat capacity that appears in clathrates. <i>Physical Review B</i> , 2016, 93, .	1.1	7
68	Rattler Site Selectivity and Covalency Effects in Type-I Clathrates. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 014703.	0.7	6
69	Se substitution and micro-nano-scale porosity enhancing thermoelectric Cu_2Te . <i>Chinese Physics B</i> , 2018, 27, 047204.	0.7	5
70	<i>Chemical Communications</i> , 2020, 56, 11839-11842.	2.2	4
71	Valence Band Studies of p- and n-Type $\text{Ba}_8\text{Ga}_{16}\text{Ge}_{30}$ Using High-Resolution Photoelectron Spectroscopy. <i>Journal of Electronic Materials</i> , 2011, 40, 769-772.	1.0	3
72	Single Crystal Structure Study of Type I Clathrate $\text{K}_8\text{Zn}_4\text{Sn}_{42}$ and $\text{K}_8\text{In}_8\text{Sn}_{38}$. <i>Journal of Electronic Materials</i> , 2017, 46, 2765-2769.	1.0	3

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73	Field-induced tricritical behavior in the Néel-type skyrmion host GaV4S8. <i>Physical Review B</i> , 2020, 102, .	1.1	3
74	Defect-induced ferromagnetism in a $S=1/2$ quasi-one-dimensional Heisenberg antiferromagnetic chain compound. <i>Scientific Reports</i> , 2021, 11, 14442.	1.6	3
75	Multi-doping in SnTe: Improvement of Thermoelectric Performance due to Lower Thermal Conductivity and Enhanced Power Factor. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2019, 34, 335.	0.6	3
76	Different carrier compensation effect in $La_{2-x}Sr_xCu_{0.94}Zn_{0.06}O_4$ and $La_{2-x}Sr_xCu_{0.94}Ni_{0.06}O_4$ samples. <i>Journal of Applied Physics</i> , 2009, 105, 083913.	1.1	1
77	Low-Temperature Physical and Thermoelectric Properties of $Ba_8Ni_5Ge_4$. <i>Journal of Electronic Materials</i> , 2013, 42, 2025-2029.	1.0	1
78	A Field-Directional Specific Heat Study on the Gap Structure of Overdoped $Ba(Fe_{1-x}Co_x)_2As_2$. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 054714.	0.7	1
79	Thermoelectric Properties of $CdTe_{1-x}Cl_x$ Material Prepared by Spark Plasma Sintering Method. <i>Journal of Electronic Materials</i> , 2014, 43, 3087-3091.	1.0	1
80	Germanium isotope effect induced guest rattling and cage distortion in clathrates. <i>Journal of Materiomics</i> , 2018, 4, 338-344.	2.8	1
81	Site occupancy preference, electrical transport property and thermoelectric performance of $Ba_{8-x}Cu_{6x}Ge_{40+x}$ single crystals grown by using different metal fluxes. <i>Materials Advances</i> , 2020, 1, 2953-2963.	2.6	1
82	Gap Structure of the Overdoped Iron-Pnictide Superconductor $Ba(Fe_{0.942}Ni_{0.058})_2As_2$: A Low-Temperature Specific-Heat Study. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-5.	0.4	0
83	Two conductive mechanisms in $LaMnO_3$ thin film: Adiabatic and nonadiabatic small polaronic hopping. <i>Modern Physics Letters B</i> , 2021, 35, 2150310.	1.0	0
84	Bilayer structured coating for radiative cooling applications. <i>Journal of Photonics for Energy</i> , 2021, 11, .	0.8	0