

Jingtao Xu

List of Publications by Year in descending order

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84
papers

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172207

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214527

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85
all docs

85
docs citations

85
times ranked

2242
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy saving potential of a fresh air pre-cooling system using radiative sky cooling. <i>Building Simulation</i> , 2022, 15, 167-178.	3.0	14
2	Performance evaluation of radiative cooling for commercial-scale warehouse. <i>Materials Today Energy</i> , 2022, 24, 100927.	2.5	13
3	Colored radiative cooling coatings using phosphor dyes. <i>Materials Today Nano</i> , 2022, 19, 100239.	2.3	15
4	Synergistic optimization of electrical and thermal transport in n-type Bi-doped PbTe by introducing coherent nanophase Cu _{1.75} Te. <i>Journal of Materiomics</i> , 2021, 7, 146-155.	2.8	13
5	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. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3522-3530.	2.7	41
6	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
7	Improving cabin thermal environment of parked vehicles under direct sunlight using a daytime radiative cooling cover. <i>Applied Thermal Engineering</i> , 2021, 190, 116776.	3.0	21
8	Realizing high thermoelectric performance in n-type SnSe polycrystals via (Pb, Br) co-doping and multi-nanoprecipitates synergy. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158401.	2.8	19
9	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
10	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
11	Phase Tuning for Enhancing the Thermoelectric Performance of Solution-Synthesized Cu ₂ xS. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39541-39549.	4.0	8
12	Bilayer structured coating for radiative cooling applications. <i>Journal of Photonics for Energy</i> , 2021, 11, .	0.8	0
13	Radiative sky cooling-assisted thermoelectric cooling system for building applications. <i>Energy</i> , 2020, 190, 116322.	4.5	66
14	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
15	Improved thermoelectric performance in PbSe-AgSbSe ₂ by manipulating the spin-orbit coupling effects. <i>Nano Energy</i> , 2020, 78, 105232.	8.2	22
16	<i>Chemical Communications</i> , 2020, 56, 11839-11842.	2.2	4
17	Field-induced tricritical behavior in the Néel-type skyrmion host GaV ₄ S ₈ . <i>Physical Review B</i> , 2020, 102, .	1.1	3
18	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. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44805-44814.	4.0	26

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19	A far-red-emitting $(\text{Gd}, \text{Y})_{3-x}(\text{Ga}, \text{Al})_{5-x}\text{O}_{12}:\text{Mn}^{2+}$ ceramic phosphor with enhanced thermal stability for plant cultivation. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5157-5168.	1.9	17
20	Effects of AgBiSe_2 on thermoelectric properties of SnTe . <i>Chemical Engineering Journal</i> , 2020, 390, 124585.	6.6	24
21	Site occupancy preference, electrical transport property and thermoelectric performance of $\text{Ba}_{8-x}\text{Cu}_{6x}\text{Ge}_{40+x}$ single crystals grown by using different metal fluxes. <i>Materials Advances</i> , 2020, 1, 2953-2963.	2.6	1
22	Synergistically Optimized Thermoelectric Performance in $\text{Bi}_{0.48}\text{Sb}_{1.52}\text{Te}_3$ by Hot Deformation and Cu Doping. <i>ACS Applied Energy Materials</i> , 2019, 2, 6714-6719.	2.5	37
23	Realizing high figure of merit plateau in Ge Bi Te via enhanced Bi solution and Ge precipitation. <i>Journal of Alloys and Compounds</i> , 2019, 805, 831-839.	2.8	25
24	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
25	Enhanced thermoelectric performance of N-type eco-friendly material $\text{Cu}_{1-x}\text{Ag}_x\text{FeS}_2$ ($x=0-0.14$) via bandgap tuning. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151717.	2.8	26
26	Optimized orientation and enhanced thermoelectric performance in $\text{Sn}_{0.97}\text{Na}_{0.03}\text{Se}$ with Te addition. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2653-2658.	2.7	19
27	Ultralow Lattice Thermal Conductivity in SnTe by Manipulating the Electron-Phonon Coupling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15996-16002.	1.5	36
28	Enhanced thermoelectric performance through crystal field engineering in transition metal-doped GeTe . <i>Materials Today Physics</i> , 2019, 9, 100094.	2.9	85
29	Thermoelectric $(\text{Bi}, \text{Sb})_2\text{Te}_3\text{-Ge}_{0.5}\text{Mn}_{0.5}\text{Te}$ composites with excellent mechanical properties. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9241-9246.	5.2	37
30	Band engineering and crystal field screening in thermoelectric Mg_3Sb_2 . <i>Journal of Materials Chemistry A</i> , 2019, 7, 8922-8928.	5.2	36
31	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
32	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
33	Charge Transport in Thermoelectric SnSe Single Crystals. <i>ACS Energy Letters</i> , 2018, 3, 689-694.	8.8	41
34	Thermoelectric properties of In-Hg co-doping in SnTe : Energy band engineering. <i>Journal of Materiomics</i> , 2018, 4, 62-67.	2.8	44
35	Thermoelectric properties of textured polycrystalline $\text{Na}_{0.03}\text{Sn}_{0.97}\text{Se}$ enhanced by hot deformation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23730-23735.	5.2	27
36	Designing band engineering for thermoelectrics starting from the periodic table of elements. <i>Materials Today Physics</i> , 2018, 7, 35-44.	2.9	75

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37	Microstructure engineering beyond SnSe _{1-x} S _x solid solution for high thermoelectric performance. Journal of Materiomics, 2018, 4, 321-328.	2.8	18
38	Se substitution and micro-nano-scale porosity enhancing thermoelectric Cu ₂ Te. Chinese Physics B, 2018, 27, 047204.	0.7	5
39	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
40	Germanium isotope effect induced guest rattling and cage distortion in clathrates. Journal of Materiomics, 2018, 4, 338-344.	2.8	1
41	Nontrivial thermoelectric behavior in cubic SnSe driven by spin-orbit coupling. Nano Energy, 2018, 51, 649-655.	8.2	37
42	Manipulating Band Convergence and Resonant State in Thermoelectric Material SnTe by Mn-In Codoping. ACS Energy Letters, 2017, 2, 1203-1207.	8.8	98
43	Improving Thermoelectric Performance of MgAgSb by Theoretical Band Engineering Design. Advanced Energy Materials, 2017, 7, 1700076.	10.2	46
44	Enhanced thermoelectric performance in n-type polycrystalline SnSe by PbBr ₂ doping. RSC Advances, 2017, 7, 17906-17912.	1.7	40
45	Direct observation of vast off-stoichiometric defects in single crystalline SnSe. Nano Energy, 2017, 35, 321-330.	8.2	101
46	Study on Thermoelectric Properties of Polycrystalline SnSe by Ge Doping. Journal of Electronic Materials, 2017, 46, 3182-3186.	1.0	29
47	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
48	Texturing degree boosts thermoelectric performance of silver-doped polycrystalline SnSe. NPG Asia Materials, 2017, 9, e426-e426.	3.8	49
49	Optimizing the thermoelectric performance of In-Cd codoped SnTe by introducing Sn vacancies. Journal of Materials Chemistry C, 2017, 5, 7504-7509.	2.7	46
50	Single Crystal Structure Study of Type I Clathrate $K_8Zn_4Sn_{42}$ and $K_8In_8Sn_{38}$. Journal of Electronic Materials, 2017, 46, 2765-2769.	1.0	3
51	Stabilization of Thermoelectric Properties of the Cu/Bi _{0.48} Sb _{1.52} Te ₃ Composite for Advantageous Power Generation. Journal of Electronic Materials, 2017, 46, 2746-2751.	1.0	9
52	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
53	Optimization of thermoelectric properties in n-type SnSe doped with BiCl ₃ . Applied Physics Letters, 2016, 108, .	1.5	103
54	Synthesis of SnTe/AgSbSe ₂ nanocomposite as a promising lead-free thermoelectric material. Journal of Materiomics, 2016, 2, 165-171.	2.8	31

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55	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
56	Enhanced thermopower in rock-salt SnTe \hat{x} CdTe from band convergence. <i>RSC Advances</i> , 2016, 6, 32189-32192.	1.7	72
57	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
58	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
59	Gap Structure of the Overdoped Iron-Pnictide Superconductor Ba(Fe _{0.942} Ni _{0.058}) ₂ As ₂ : A Low-Temperature Specific-Heat Study. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-5.	0.4	0
60	Enhanced power factor in the promising thermoelectric material SnPb _x Te prepared via zone-melting. <i>RSC Advances</i> , 2015, 5, 59379-59383.	1.7	13
61	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
62	Structure and thermoelectric properties of the n-type clathrate Ba ₈ Cu _{5.1} Ge _{40.2} Sn _{0.7} . <i>Journal of Materials Chemistry A</i> , 2015, 3, 19100-19106.	5.2	17
63	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
64	Electron and Hole Injection via Charge Transfer at the Topological Insulator Bi ₂ Sb ₃ Te ₃ Se ₅ Organoid. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3533-3538.		12
65	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
66	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
67	Thermoelectric Properties of CdTe \hat{x} Cl _x Material Prepared by Spark Plasma Sintering Method. <i>Journal of Electronic Materials</i> , 2014, 43, 3087-3091.	1.0	1
68	Low-Temperature Physical and Thermoelectric Properties of Ba ₈ Ni ₅ Ge ₄₁ . <i>Journal of Electronic Materials</i> , 2013, 42, 2025-2029.	1.0	1
69	A Field-Directional Specific Heat Study on the Gap Structure of Overdoped Ba(Fe _{1-x} Co _x) ₂ As ₂ . <i>Journal of the Physical Society of Japan</i> , 2013, 82, 054714.	0.7	1
70	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
71	Suppression of backward scattering of Dirac fermions in iron pnictides Ba(Fe \hat{x} Ru _x As) ₂ . <i>Physical Review B</i> , 2012, 86, .	1.1	11
72	Heat capacity studies on rattling vibrations in Ba \hat{x} TM \hat{x} Ge type I clathrates. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1521-1523.	1.9	8

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73	Positive relation between structure and thermal conductivity in type-I clathrates X_8Ga . <i>Journal of Applied Physics</i> , 2011, 104, 083914.	1.1	28
74	Low-Temperature Physical Properties of $Ba_8Ni_xGe_4$ ($x=3, 4, 6$). <i>Journal of Electronic Materials</i> , 2012, 41, 1177-1180.	1.0	10
75	Valence Band Studies of p- and n-Type $Ba_8Ga_{16}Ge_{30}$ Using High-Resolution Photoelectron Spectroscopy. <i>Journal of Electronic Materials</i> , 2011, 40, 769-772.	1.0	3
76	Heat Capacity Study on Anharmonicity in $Ae_8Ga_{16}Ge_{30}$ ($Ae=Sr$ and Ba). <i>Journal of Electronic Materials</i> , 2011, 40, 879-883.	1.0	11
77	Evidence for line nodes in the energy gap of the overdoped $Ba(Fe_{1-x}Co_x)_2As_2$ from low-temperature specific heat measurements. <i>Physical Review B</i> , 2011, 84, .	1.1	18
78	Coexistence of Dirac-cone states and superconductivity in iron pnictide $Ba(Fe_{1-x}Ru_x)As_2$. <i>Physical Review B</i> , 2011, 84, .	1.1	27
79	Electron-Phonon Interactions of Si_{100} and Ge_{100} Superconductors with Ba Atoms. <i>Physical Review Letters</i> , 2010, 105, 176402.	2.9	18
80	Low-temperature heat capacity of $Sr_8Cu_8S_{16}$. <i>Physical Review B</i> , 2010, 82, .	1.1	1
81	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
82	Pressure Effect on Superconductivity and Magnetism in \pm -FeSe x . <i>Journal of Superconductivity and Novel Magnetism</i> , 2009, 22, 667-670.	0.8	16
83	Different electrostatic magnetic contributions between W^{4+} and Mn^{2+} in $CuR_2M_xS_4$ ($M=W/Mn$) system. <i>Solid State Communications</i> , 2009, 149, 471-475.	0.9	7
84	Coexistence and competition between superconductivity and magnetism in $La_{2-x}Sr_xCu_{0.94}M_{0.06}O_4$ ($M=Mn$ and Ru). <i>Journal of Applied Physics</i> , 2008, 104, 063914.	1.1	7