

Hyungyu Jin

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

779
citations

623734

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1290
citing authors

#	ARTICLE	IF	CITATIONS
1	High thermoelectric performance by chemical potential tuning and lattice anharmonicity in $\text{GeTe}_{1-x}\text{I}_x$ compounds. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1205-1214.	6.0	4
2	Deep learning-based phase prediction of high-entropy alloys: Optimization, generation, and explanation. <i>Materials and Design</i> , 2021, 197, 109260.	7.0	90
3	Designing efficient spin Seebeck-based thermoelectric devices via simultaneous optimization of bulk and interface properties. <i>Energy and Environmental Science</i> , 2021, 14, 3480-3491.	30.8	19
4	Synergistic Enhancement of Thermoelectric Performances by Cl-Doping and Pb-Excess in $(\text{Pb},\text{Sn})\text{Se}$ Topological Crystal Insulator. <i>Materials</i> , 2021, 14, 1920.	2.9	0
5	Transverse thermal energy conversion using spin and topological structures. <i>Journal of Applied Physics</i> , 2021, 130, 171101.	2.5	9
6	Catalytic effect of laser-combined atmospheric pressure plasma in lowering the reduction temperature of hematite. <i>RSC Advances</i> , 2021, 11, 35489-35493.	3.6	0
7	Fabrication and Cooling Performance Optimization of Stretchable Thermoelectric Cooling Device. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5433-5442.	4.3	9
8	Possible Charge Density Wave and Enhancement of Thermoelectric Properties at Mild-Temperature Range in n-Type CuI -Doped $\text{Bi}_2\text{Te}_{2.1}\text{Se}_{0.9}$ Compounds. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 925-933.	8.0	23
9	Effective phonon scattering and enhancement of thermoelectric performance in Ga-excess $\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ compounds. <i>Current Applied Physics</i> , 2020, 20, 1036-1040.	2.4	5
10	Thermoelectric Properties and Low-Energy Carrier Filtering by Mo Microparticle Dispersion in an n-Type $(\text{CuI})_{0.003}\text{Bi}_2(\text{Te},\text{Se})_3$ Bulk Matrix. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38076-38084.	8.0	39
11	Enhancing the spin Seebeck effect by controlling interface condition in Pt/polycrystalline nickel ferrite slabs. <i>Journal of Applied Physics</i> , 2020, 127, 085105.	2.5	15
12	A rotating fluidized bed reactor for rapid temperature ramping in two-step thermochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8126-8138.	7.1	4
13	Spin caloritronic Measurements: A Round Robin Comparison of the Longitudinal Spin Seebeck Effect. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 1765-1773.	4.7	19
14	Spin Caloritronic Measurements: A Round Robin Comparison of the Longitudinal Spin Seebeck Effect. , 2018, , .		1
15	Enhancement of thermoelectric properties by lattice softening and energy band gap control in Te-deficient $\text{InTe}_{1-x}\text{I}_x$. <i>AIP Advances</i> , 2018, 8, .	1.3	24
16	The use of poly-cation oxides to lower the temperature of two-step thermochemical water splitting. <i>Energy and Environmental Science</i> , 2018, 11, 2172-2178.	30.8	105
17	Optimization of the figure of merit in Bi_3O_3 nanocomposites. <i>Physical Review Materials</i> , 2018, 2, .	2.4	9
18	BiSb and spin-related thermoelectric phenomena. <i>Proceedings of SPIE</i> , 2016, , .	0.8	5

#	ARTICLE	IF	CITATIONS
19	Magnon-drag thermopower and Nernst coefficient in Fe, Co, and Ni. Physical Review B, 2016, 94, .	3.2	107
20	Thermoelectric and spin-caloritronic coolers: from basics to recent developments. Proceedings of SPIE, 2016, , .	0.8	4
21	Effect of the magnon dispersion on the longitudinal spin Seebeck effect in yttrium iron garnets. Physical Review B, 2015, 92, .	3.2	111
22	Anisotropic defect-induced ferromagnetism and transport in Gd-doped GaN two-dimensional electron gasses. Physical Review B, 2015, 92, .	3.2	2
23	P-type doping of elemental bismuth with indium, gallium and tin: a novel doping mechanism in solids. Energy and Environmental Science, 2015, 8, 2027-2040.	30.8	32
24	YbCu ₂ Si ₂ â€“LaCu ₂ Si ₂ Solid Solutions with Enhanced Thermoelectric Power Factors. Journal of Electronic Materials, 2015, 44, 1663-1667.	2.2	9
25	Phonon-induced diamagnetic force and its effect on the lattice thermal conductivity. Nature Materials, 2015, 14, 601-606.	27.5	45
26	Electronic structure and thermoelectric properties of p-type Ag-doped Mg ₂ Sn and Mg ₂ Sn _{1-x} Si _x (xâ€“=â€“0.05, 0.1). Journal of Applied Physics, 2014, 116, .	2.5	35
27	Spin-Seebeck like signal in ferromagnetic bulk metallic glass without platinum contacts. Solid State Communications, 2014, 198, 40-44.	1.9	12
28	Enhanced thermoelectric power factor in Yb ^{1-x} Sc _x Al ₂ alloys using chemical pressure tuning of the Yb valence. Journal of Applied Physics, 2013, 114, .	2.5	17
29	Enhancement in the figure of merit of p-type Bi _{100-x} Sb _x alloys through multiple valence-band doping. Applied Physics Letters, 2012, 101, 053904.	3.3	18
30	Lithium as an Interstitial Donor in Bismuth and Bismuthâ€“Antimony Alloys. Journal of Electronic Materials, 2012, 41, 1648-1652.	2.2	7