Hyungyu Jin

List of Publications by Year in descending order

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30	779	14	27
papers	citations	h-index	g-index
31	31	31	1290
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of the magnon dispersion on the longitudinal spin Seebeck effect in yttrium iron garnets. Physical Review B, 2015, 92, .	3.2	111
2	Magnon-drag thermopower and Nernst coefficient in Fe, Co, and Ni. Physical Review B, 2016, 94, .	3.2	107
3	The use of poly-cation oxides to lower the temperature of two-step thermochemical water splitting. Energy and Environmental Science, 2018, 11, 2172-2178.	30.8	105
4	Deep learning-based phase prediction of high-entropy alloys: Optimization, generation, and explanation. Materials and Design, 2021, 197, 109260.	7.0	90
5	Phonon-induced diamagnetic force and its effect on the lattice thermal conductivity. Nature Materials, 2015, 14, 601-606.	27.5	45
6	Thermoelectric Properties and Low-Energy Carrier Filtering by Mo Microparticle Dispersion in an n-Type (CuI) _{0.003} Bi ₂ (Te,Se) ₃ Bulk Matrix. ACS Applied Materials & amp; Interfaces, 2020, 12, 38076-38084.	8.0	39
7	Electronic structure and thermoelectric properties of p-type Ag-doped Mg2Sn and Mg2Sn1-xSix (x = 0.05, 0.1). Journal of Applied Physics, 2014, 116, .	2.5	35
8	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
9	Enhancement of thermoelectric properties by lattice softening and energy band gap control in Te-deficient InTe1 \hat{a} ' < i × Î' < /i >. AIP Advances, 2018, 8, .	1.3	24
10	Possible Charge Density Wave and Enhancement of Thermoelectric Properties at Mild-Temperature Range in n-Type Cul-Doped Bi ₂ Te _{2.1} Se _{0.9} Compounds. ACS Applied Materials & Description of the Compounds of the Compound of	8.0	23
11	Spincaloritronic Measurements: A Round Robin Comparison of the Longitudinal Spin Seebeck Effect. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1765-1773.	4.7	19
12	Designing efficient spin Seebeck-based thermoelectric devices <i>via</i> simultaneous optimization of bulk and interface properties. Energy and Environmental Science, 2021, 14, 3480-3491.	30.8	19
13	Enhancement in the figure of merit of p-type Bi _{100â^'x} Sb _x alloys through multiple valence-band doping. Applied Physics Letters, 2012, 101, 053904.	3.3	18
14	Enhanced thermoelectric power factor in Yb1â^'xScxAl2 alloys using chemical pressure tuning of the Yb valence. Journal of Applied Physics, 2013, 114, .	2.5	17
15	Enhancing the spin Seebeck effect by controlling interface condition in Pt/polycrystalline nickel ferrite slabs. Journal of Applied Physics, 2020, 127, 085105.	2.5	15
16	Spin-Seebeck like signal in ferromagnetic bulk metallic glass without platinum contacts. Solid State Communications, 2014, 198, 40-44.	1.9	12
17	YbCu2Si2–LaCu2Si2 Solid Solutions with Enhanced Thermoelectric Power Factors. Journal of Electronic Materials, 2015, 44, 1663-1667.	2.2	9
	Ontimization of the figure of merit in amplimath		

Optimization of the figure of merit in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mrow></mml:mrow></mml:math> nanocomposites. Physical Review Materials, 2018, 2, .

#	Article	IF	Citations
19	Transverse thermal energy conversion using spin and topological structures. Journal of Applied Physics, 2021, 130, 171101.	2.5	9
20	Fabrication and Cooling Performance Optimization of Stretchable Thermoelectric Cooling Device. ACS Applied Electronic Materials, 2021, 3, 5433-5442.	4.3	9
21	Lithium as an Interstitial Donor in Bismuth and Bismuth–Antimony Alloys. Journal of Electronic Materials, 2012, 41, 1648-1652.	2.2	7
22	BiSb and spin-related thermoelectric phenomena. Proceedings of SPIE, 2016, , .	0.8	5
23	Effective phonon scattering and enhancement of thermoelectric performance in Ga-excess Bi0.4Sb1.6Te3 compounds. Current Applied Physics, 2020, 20, 1036-1040.	2.4	5
24	Thermoelectric and spin-caloritronic coolers: from basics to recent developments. Proceedings of SPIE, $2016, , .$	0.8	4
25	A rotating fluidized bed reactor for rapid temperature ramping in two-step thermochemical water splitting. International Journal of Hydrogen Energy, 2020, 45, 8126-8138.	7.1	4
26	High thermoelectric performance by chemical potential tuning and lattice anharmonicity in GeTe _{1â^2x} 1 _x compounds. Inorganic Chemistry Frontiers, 2021, 8, 1205-1214.	6.0	4
27	Anisotropic defect-induced ferromagnetism and transport in Gd-doped GaN two-dimensional electron gasses. Physical Review B, 2015, 92, .	3.2	2
28	Spin Caloritronic Measurements: A Round Robin Comparison of the Longitudinal Spin Seebeck Effect. , 2018, , .		1
29	Synergistic Enhancement of Thermoelectric Performances by Cl-Doping and Pb-Excess in (Pb,Sn)Se Topological Crystal Insulator. Materials, 2021, 14, 1920.	2.9	0
30	Catalytic effect of laser-combined atmospheric pressure plasma in lowering the reduction temperature of hematite. RSC Advances, 2021, 11, 35489-35493.	3.6	O