

Junphil Hwang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

20
papers

720
citations

13
h-index

20
g-index

20
ext. papers

830
ext. citations

8.2
avg, IF

3.78
L-index

#	Paper	IF	Citations
20	Band Degeneracy, Low Thermal Conductivity, and High Thermoelectric Figure of Merit in SnTe _{1-x} Ga _x Te Alloys. <i>Chemistry of Materials</i> , 2016 , 28, 376-384	9.6	180
19	Right sizes of nano- and microstructures for high-performance and rigid bulk thermoelectrics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10949-54	11.5	108
18	High Thermoelectric Performance of a Heterogeneous PbTe Nanocomposite. <i>Chemistry of Materials</i> , 2015 , 27, 944-949	9.6	90
17	Ultralow Lattice Thermal Conductivity and Enhanced Thermoelectric Performance in SnTe:Ga Materials. <i>Chemistry of Materials</i> , 2017 , 29, 612-620	9.6	76
16	Enhancement of the thermoelectric performance of bulk SnTe alloys via the synergistic effect of band structure modification and chemical bond softening. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14163-14173	12.48	148
15	Gigantic Phonon-Scattering Cross Section To Enhance Thermoelectric Performance in Bulk Crystals. <i>ACS Nano</i> , 2019 , 13, 8347-8355	16.7	38
14	Large enhancement in the thermoelectric properties of Pb _{0.98} Na _{0.02} Te by optimizing the synthesis conditions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11269	13	35
13	High power output from body heat harvesting based on flexible thermoelectric system with low thermal contact resistance. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 365501	3	27
12	Thermoelectricity in semiconductor nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 767-780	2.5	24
11	Mat-like flexible thermoelectric system based on rigid inorganic bulk materials. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 494006	3	21
10	More than half reduction in price per watt of thermoelectric device without increasing the thermoelectric figure of merit of materials. <i>Applied Energy</i> , 2017 , 205, 1459-1466	10.7	14
9	Optimization of peak and average figures of merits for In & Se co-doped SnTe alloys. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 793-801	6.8	14
8	New device architecture of a thermoelectric energy conversion for recovering low-quality heat. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 114, 1201-1208	2.6	13
7	Low Thermal Conductivity and High Thermoelectric Performance in In ₄ Se ₃ with Phase-Separated Indium Inclusions. <i>Journal of Electronic Materials</i> , 2017 , 46, 1444-1450	1.9	8
6	Improved thermoelectric properties of n-type Bi ₂ Te ₃ alloy deriving from two-phased heterostructure by the reduction of CuI with Sn. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 1282-1291	2.1	8
5	Enhancement of thermoelectric performance in a non-toxic CuInTe ₂ /SnTe coated grain nanocomposite. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14851-14858	13	6
4	Size-Controlled Au-CuSe Core-Shell Nanoparticles and Their Thermoelectric Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36589-36599	9.5	4

- 3 High Thermoelectric Performance of ZnO by Coherent Phonon Scattering and Optimized Charge Transport. *Advanced Functional Materials*, **2021**, 31, 2105008 15.6 3
- 2 Synergetic enhancement of thermoelectric performances by localized carrier and phonon scattering in Cu₂Se with incorporated fullerene nanoparticles. *Nanoscale Advances*, **2021**, 3, 3107-3113 5.1 3
- 1 Study on Metalizing 2% Na-PbTe for Thermoelectric Device. *Transactions of the Society of Information Storage Systems*, **2014**, 10, 32-38