

Junphil Hwang

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

919
citations

623188

14
h-index

794141

19
g-index

20
all docs

20
docs citations

20
times ranked

1151
citing authors

#	ARTICLE	IF	CITATIONS
1	Band Degeneracy, Low Thermal Conductivity, and High Thermoelectric Figure of Merit in SnTe/CaTe Alloys. <i>Chemistry of Materials</i> , 2016, 28, 376-384.	3.2	234
2	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, 10949-10954.	3.3	115
3	High Thermoelectric Performance of a Heterogeneous PbTe Nanocomposite. <i>Chemistry of Materials</i> , 2015, 27, 944-949.	3.2	102
4	Ultralow Lattice Thermal Conductivity and Enhanced Thermoelectric Performance in SnTe:Ga Materials. <i>Chemistry of Materials</i> , 2017, 29, 612-620.	3.2	89
5	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, 14165-14173.	5.2	65
6	Gigantic Phonon-Scattering Cross Section To Enhance Thermoelectric Performance in Bulk Crystals. <i>ACS Nano</i> , 2019, 13, 8347-8355.	7.3	54
7	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.	1.3	44
8	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.	5.2	38
9	Mat-like flexible thermoelectric system based on rigid inorganic bulk materials. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 494006.	1.3	30
10	Thermoelectricity in semiconductor nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 767-780.	1.2	27
11	High Thermoelectric Performance of ZnO by Coherent Phonon Scattering and Optimized Charge Transport. <i>Advanced Functional Materials</i> , 2021, 31, 2105008.	7.8	19
12	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.	5.1	18
13	Optimization of peak and average figures of merits for In & Se co-doped SnTe alloys. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 793-801.	3.0	17
14	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.	1.1	15
15	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.	1.1	15
16	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.	5.2	12
17	Low Thermal Conductivity and High Thermoelectric Performance in In ₄ Se ₃ ~x with Phase-Separated Indium Inclusions. <i>Journal of Electronic Materials</i> , 2017, 46, 1444-1450.	1.0	9
18	Size-Controlled Au/Cu ₂ Se Core/Shell Nanoparticles and Their Thermoelectric Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36589-36599.	4.0	9

#	ARTICLE	IF	CITATIONS
19	Synergetic enhancement of thermoelectric performances by localized carrier and phonon scattering in Cu ₂ Se with incorporated fullerene nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 3107-3113.	2.2	7
20	Study on Metalizing 2% Na-PbTe for Thermoelectric Device. <i>Transactions of the Society of Information Storage Systems</i> , 2014, 10, 32-38.	0.0	0