

Hee-Seok Kim

List of Publications by Citations

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27
papers

2,280
citations

19
h-index

29
g-index

29
ext. papers

2,729
ext. citations

12.3
avg, IF

5.34
L-index

#	Paper	IF	Citations
27	Current progress and future challenges in thermoelectric power generation: From materials to devices. <i>Acta Materialia</i> , 2015 , 87, 357-376	8.4	339
26	Advanced Soft Materials, Sensor Integrations, and Applications of Wearable Flexible Hybrid Electronics in Healthcare, Energy, and Environment. <i>Advanced Materials</i> , 2020 , 32, e1901924	24	305
25	Relationship between thermoelectric figure of merit and energy conversion efficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8205-10	11.5	300
24	Achieving high power factor and output power density in p-type half-Heuslers Nb _{1-x} Ti _x FeSb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13576-13581	11.5	164
23	n-type thermoelectric material Mg ₂ Sn _{0.75} Ge _{0.25} for high power generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3269-74	11.5	152
22	Importance of high power factor in thermoelectric materials for power generation application: A perspective. <i>Scripta Materialia</i> , 2016 , 111, 3-9	5.6	122
21	The bridge between the materials and devices of thermoelectric power generators. <i>Energy and Environmental Science</i> , 2017 , 10, 69-85	35.4	115
20	Thermoelectric properties of Na-doped Zintl compound: Mg ₃ NaSb ₂ . <i>Acta Materialia</i> , 2015 , 93, 187-193	8.4	91
19	Thermoelectric properties of materials near the band crossing line in Mg ₂ Sn/Mg ₂ Ge/Mg ₂ Si system. <i>Acta Materialia</i> , 2016 , 103, 633-642	8.4	85
18	Design of segmented thermoelectric generator based on cost-effective and light-weight thermoelectric alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 185, 45-52	3.1	72
17	Thermoelectric properties of Bi-based Zintl compounds Ca _{1-x} Yb _x Mg ₂ Bi ₂ . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4312-4320	13	69
16	New insight into the material parameter B to understand the enhanced thermoelectric performance of Mg ₂ Sn _{1-x} GexSb _y . <i>Energy and Environmental Science</i> , 2016 , 9, 530-539	35.4	68
15	Study on thermoelectric performance by Na doping in nanostructured Mg _{1-x} Na _x Ag _{0.97} Sb _{0.99} . <i>Nano Energy</i> , 2015 , 11, 640-646	17.1	64
14	High thermoelectric power factor in Cu ₃ Ni alloy originate from potential barrier scattering of twin boundaries. <i>Nano Energy</i> , 2015 , 17, 279-289	17.1	56
13	Enhancement of thermoelectric performance of phase pure Zintl compounds Ca _{1-x} b Zn ₂ Sb ₂ , Ca _{1-x} bu Zn ₂ Sb ₂ , and Eu _{1-x} b Zn ₂ Sb ₂ by mechanical alloying and hot pressing. <i>Nano Energy</i> , 2016 , 25, 136-144	17.1	54
12	High thermoelectric performance of n-type PbTe _{1-x} S due to deep lying states induced by indium doping and spinodal decomposition. <i>Nano Energy</i> , 2016 , 22, 572-582	17.1	49
11	Investigating the thermoelectric properties of p-type half-Heusler Hfx(ZrTi) _{1-x} CoSb _{0.8} Sn _{0.2} by reducing Hf concentration for power generation. <i>RSC Advances</i> , 2014 , 4, 64711-64716	3.7	44

10	Efficiency and output power of thermoelectric module by taking into account corrected Joule and Thomson heat. <i>Journal of Applied Physics</i> , 2015 , 118, 115103	2.5	25
9	Thermoelectric properties of Zintl compound $\text{Ca}_{1-x}\text{NaxMg}_2\text{Bi}_{1.98}$. <i>Applied Physics Letters</i> , 2016 , 108, 183901	3.4	24
8	Transport and mechanical properties of the double-filled p-type skutterudites $\text{La}_{0.68}\text{Ce}_{0.22}\text{Fe}_{4-x}\text{Co}_x\text{Sb}_{12}$. <i>Acta Materialia</i> , 2016 , 117, 13-22	8.4	18
7	Engineering Thermal Conductivity for Balancing Between Reliability and Performance of Bulk Thermoelectric Generators. <i>Advanced Functional Materials</i> , 2016 , 26, 3678-3686	15.6	17
6	Breathable, large-area epidermal electronic systems for recording electromyographic activity during operant conditioning of H-reflex. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112404	11.8	13
5	System efficiency and power: the bridge between the device and system of a thermoelectric power generator. <i>Energy and Environmental Science</i> , 2020 , 13, 3514-3526	35.4	13
4	Design of linear shaped thermoelectric generator and self-integration using shape memory alloy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 183, 61-68	3.1	8
3	A rapid method to extract Seebeck coefficient under a large temperature difference. <i>Review of Scientific Instruments</i> , 2017 , 88, 094902	1.7	5
2	Wearable Flexible Hybrid Electronics: Advanced Soft Materials, Sensor Integrations, and Applications of Wearable Flexible Hybrid Electronics in Healthcare, Energy, and Environment (Adv. Mater. 15/2020). <i>Advanced Materials</i> , 2020 , 32, 2070116	24	5
1	A Thermoelectric Energy Harvester Based on Microstructured Quasicrystalline Solar Absorber. <i>Micromachines</i> , 2021 , 12,	3.3	3