

# Hee-Seok Kim

## List of Publications by Year in Descending Order

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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.

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	A Thermoelectric Energy Harvester Based on Microstructured Quasicrystalline Solar Absorber. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	3
26	Breathable, large-area epidermal electronic systems for recording electromyographic activity during operant conditioning of H-reflex. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 165, 112404	11.8	13
25	System efficiency and power: the bridge between the device and system of a thermoelectric power generator. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3514-3526	35.4	13
24	Advanced Soft Materials, Sensor Integrations, and Applications of Wearable Flexible Hybrid Electronics in Healthcare, Energy, and Environment. <i>Advanced Materials</i> , <b>2020</b> , 32, e1901924	24	305
23	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> , <b>2020</b> , 32, 2070116	24	5
22	A rapid method to extract Seebeck coefficient under a large temperature difference. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 094902	1.7	5
21	The bridge between the materials and devices of thermoelectric power generators. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 69-85	35.4	115
20	Achieving high power factor and output power density in p-type half-Heuslers Nb <sub>1-x</sub> Ti <sub>x</sub> FeSb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 13576-13581	11.5	164
19	Transport and mechanical properties of the double-filled p-type skutterudites La <sub>0.68</sub> Ce <sub>0.22</sub> Fe <sub>4-x</sub> CoxSb <sub>12</sub> . <i>Acta Materialia</i> , <b>2016</b> , 117, 13-22	8.4	18
18	Engineering Thermal Conductivity for Balancing Between Reliability and Performance of Bulk Thermoelectric Generators. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3678-3686	15.6	17
17	Enhancement of thermoelectric performance of phase pure Zintl compounds Ca <sub>1-x</sub> B <sub>x</sub> Zn <sub>2</sub> Sb <sub>2</sub> , Ca <sub>1-x</sub> Eu <sub>x</sub> Zn <sub>2</sub> Sb <sub>2</sub> , and Eu <sub>1-x</sub> B <sub>x</sub> Zn <sub>2</sub> Sb <sub>2</sub> by mechanical alloying and hot pressing. <i>Nano Energy</i> , <b>2016</b> , 25, 136-144	17.1	54
16	New insight into the material parameter B to understand the enhanced thermoelectric performance of Mg <sub>2</sub> Sn <sub>1-x</sub> GexSb <sub>y</sub> . <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 530-539	35.4	68
15	Thermoelectric properties of Bi-based Zintl compounds Ca <sub>1-x</sub> Y <sub>b</sub> xMg <sub>2</sub> Bi <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4312-4320	13	69
14	High thermoelectric performance of n-type PbTe <sub>1-x</sub> S <sub>x</sub> due to deep lying states induced by indium doping and spinodal decomposition. <i>Nano Energy</i> , <b>2016</b> , 22, 572-582	17.1	49
13	Thermoelectric properties of materials near the band crossing line in Mg <sub>2</sub> Sn/Mg <sub>2</sub> Ge/Mg <sub>2</sub> Si system. <i>Acta Materialia</i> , <b>2016</b> , 103, 633-642	8.4	85
12	Importance of high power factor in thermoelectric materials for power generation application: A perspective. <i>Scripta Materialia</i> , <b>2016</b> , 111, 3-9	5.6	122
11	Thermoelectric properties of Zintl compound Ca <sub>1-x</sub> NaxMg <sub>2</sub> Bi <sub>1.98</sub> . <i>Applied Physics Letters</i> , <b>2016</b> , 108, 183901	3.4	24

10	n-type thermoelectric material Mg <sub>2</sub> Sn <sub>0.75</sub> Ge <sub>0.25</sub> for high power generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3269-74	11.5	152
9	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> , <b>2015</b> , 112, 8205-10	11.5	300
8	High thermoelectric power factor in CuNi alloy originate from potential barrier scattering of twin boundaries. <i>Nano Energy</i> , <b>2015</b> , 17, 279-289	17.1	56
7	Study on thermoelectric performance by Na doping in nanostructured Mg <sub>1-x</sub> Na <sub>x</sub> Ag <sub>0.97</sub> Sb <sub>0.99</sub> . <i>Nano Energy</i> , <b>2015</b> , 11, 640-646	17.1	64
6	Efficiency and output power of thermoelectric module by taking into account corrected Joule and Thomson heat. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 115103	2.5	25
5	Thermoelectric properties of Na-doped Zintl compound: Mg <sub>3</sub> Na Sb <sub>2</sub> . <i>Acta Materialia</i> , <b>2015</b> , 93, 187-193	8.4	91
4	Current progress and future challenges in thermoelectric power generation: From materials to devices. <i>Acta Materialia</i> , <b>2015</b> , 87, 357-376	8.4	339
3	Investigating the thermoelectric properties of p-type half-Heusler Hf <sub>x</sub> (ZrTi) <sub>1-x</sub> CoSb <sub>0.8</sub> Sn <sub>0.2</sub> by reducing Hf concentration for power generation. <i>RSC Advances</i> , <b>2014</b> , 4, 64711-64716	3.7	44
2	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> , <b>2014</b> , 183, 61-68	3.1	8
1	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> , <b>2014</b> , 185, 45-52	3.1	72