

# Jeongmin 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.

25  
papers

282  
citations

11  
h-index

16  
g-index

29  
ext. papers

337  
ext. citations

6.6  
avg, IF

3.37  
L-index

#	Paper	IF	Citations
25	Strong enhancement of room-temperature thermoelectric properties of Cu-doped Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> . <i>Applied Physics Letters</i> , <b>2022</b> , 120, 043903	3.4	0
24	Experimental verification of semi-metallic band structure in PtSe <sub>2</sub> via thermoelectric power measurements. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 043103	3.4	1
23	Enhanced Thermoelectric Power Factor in Carrier-Type-Controlled Platinum Diselenide Nanosheets by Molecular Charge-Transfer Doping.. <i>Small</i> , <b>2022</b> , e2200818	11	
22	Improved window energy efficiency with thermal insulating polymer-air multilayer. <i>Applied Thermal Engineering</i> , <b>2021</b> , 191, 116890	5.8	6
21	Oxidation Behaviors of Si/Al Pack Cementation Coated MoSi <sub>2</sub> /B Alloys at Various Temperatures. <i>Metals and Materials International</i> , <b>2021</b> , 27, 914-921	2.4	2
20	Hollow-Structured Bilayer System for Windowpane Insulation. <i>Journal of Energy Engineering - ASCE</i> , <b>2021</b> , 147, 06021001	1.7	
19	Synchronized enhancement of thermoelectric properties of higher manganese silicide by introducing Fe and Co nanoparticles. <i>Nano Energy</i> , <b>2020</b> , 72, 104698	17.1	12
18	Semimetallic features in thermoelectric transport properties of 2H <sub>18</sub> R phase niobium diselenide. <i>Nano Energy</i> , <b>2020</b> , 78, 105197	17.1	3
17	Elevating low-emissivity film for lower thermal transmittance. <i>Energy and Buildings</i> , <b>2019</b> , 193, 69-77	7	16
16	Strong Thermopower Enhancement and Tunable Power Factor Semimetal to Semiconductor Transition in a Transition-Metal Dichalcogenide. <i>ACS Nano</i> , <b>2019</b> , 13, 13317-13324	16.7	16
15	Bismuth Islands for Low-Temperature Sodium-Beta Alumina Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2917-2924	9.5	18
14	Understanding the structural, electrical, and optical properties of monolayer h-phase RuO <sub>2</sub> nanosheets: a combined experimental and computational study. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 266-276	10.3	16
13	Ambipolar thermoelectric power of chemically-exfoliated RuO nanosheets. <i>Nanotechnology</i> , <b>2018</b> , 29, 015404	3.4	5
12	Dependence of mechanical and thermoelectric properties of Mg <sub>2</sub> Si-Sn nanocomposites on interface density. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 53-58	5.7	15
11	Strain-engineered allotrope-like bismuth nanowires for enhanced thermoelectric performance. <i>Acta Materialia</i> , <b>2018</b> , 144, 145-153	8.4	5
10	Strong enhancement of electrical conductivity in two-dimensional micrometer-sized RuO nanosheets for flexible transparent electrodes. <i>Nanoscale</i> , <b>2017</b> , 9, 7104-7113	7.7	16
9	Semimetal to semiconductor transition and polymer electrolyte gate modulation in single-crystalline bismuth nanowires. <i>Nanoscale</i> , <b>2017</b> , 9, 923-929	7.7	6

8	Observation of anisotropy in thermoelectric properties of individual single-crystalline bismuth nanowires. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 034303	2.5	8
7	Bismuth nanowire thermoelectrics. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 11999-12013	7.1	34
6	Proton irradiation effects on the thermoelectric properties in single-crystalline Bi nanowires. <i>AIP Advances</i> , <b>2015</b> , 5, 057101	1.5	3
5	Diameter-dependent thermoelectric figure of merit in single-crystalline Bi nanowires. <i>Nanoscale</i> , <b>2015</b> , 7, 5053-9	7.7	50
4	Quantum size effect on Shubnikov-de Haas oscillations in 100 nm diameter single-crystalline bismuth nanowire. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 123107	3.4	19
3	Weak antilocalization and conductance fluctuation in a single crystalline Bi nanowire. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 043105	3.4	24
2	The Optoelectronic Properties of PbS Nanowire Field-Effect Transistors. <i>IEEE Nanotechnology Magazine</i> , <b>2013</b> , 12, 1135-1138	2.6	2
1	Bi nanowire-based thermal biosensor for the detection of salivary cortisol using the Thomson effect. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 143114	3.4	5