Jeongmin Kim

List of Publications by Citations

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	Diameter-dependent thermoelectric figure of merit in single-crystalline Bi nanowires. *Nanoscale*, **2015**, 7, 5053-9	7.7	50
24	Bismuth nanowire thermoelectrics. *Journal of Materials Chemistry C*, **2015**, 3, 11999-12013	7.1	34
23	Weak antilocalization and conductance fluctuation in a single crystalline Bi nanowire. *Applied Physics Letters*, **2014**, 104, 043105	3.4	24
22	Quantum size effect on Shubnikov-de Haas oscillations in 100 nm diameter single-crystalline bismuth nanowire. *Applied Physics Letters*, **2014**, 105, 123107	3.4	19
21	Bismuth Islands for Low-Temperature Sodium-Beta Alumina Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 2917-2924	9.5	18
20	Strong enhancement of electrical conductivity in two-dimensional micrometer-sized RuO nanosheets for flexible transparent electrodes. *Nanoscale*, **2017**, 9, 7104-7113	7.7	16
19	Elevating low-emissivity film for lower thermal transmittance. *Energy and Buildings*, **2019**, 193, 69-77	7	16
18	Understanding the structural, electrical, and optical properties of monolayer h-phase RuO2 nanosheets: a combined experimental and computational study. *NPG Asia Materials*, **2018**, 10, 266-276	10.3	16
17	Strong Thermopower Enhancement and Tunable Power Factor Semimetal to Semiconductor Transition in a Transition-Metal Dichalcogenide. *ACS Nano*, **2019**, 13, 13317-13324	16.7	16
16	Dependence of mechanical and thermoelectric properties of Mg2Si-Sn nanocomposites on interface density. *Journal of Alloys and Compounds*, **2018**, 769, 53-58	5.7	15
15	Synchronized enhancement of thermoelectric properties of higher manganese silicide by introducing Fe and Co nanoparticles. *Nano Energy*, **2020**, 72, 104698	17.1	12
14	Observation of anisotropy in thermoelectric properties of individual single-crystalline bismuth nanowires. *Journal of Applied Physics*, **2017**, 122, 034303	2.5	8
13	Semimetal to semiconductor transition and polymer electrolyte gate modulation in single-crystalline bismuth nanowires. *Nanoscale*, **2017**, 9, 923-929	7.7	6
12	Improved window energy efficiency with thermal insulating polymer-air multilayer. *Applied Thermal Engineering*, **2021**, 191, 116890	5.8	6
11	Ambipolar thermoelectric power of chemically-exfoliated RuO nanosheets. *Nanotechnology*, **2018**, 29, 015404	3.4	5
10	Bi nanowire-based thermal biosensor for the detection of salivary cortisol using the Thomson effect. *Applied Physics Letters*, **2013**, 103, 143114	3.4	5
9	Strain-engineered allotrope-like bismuth nanowires for enhanced thermoelectric performance. *Acta Materialia*, **2018**, 144, 145-153	8.4	5

8	Proton irradiation effects on the thermoelectric properties in single-crystalline Bi nanowires. *AIP Advances*, **2015**, 5, 057101	1.5	3
7	Semimetallic features in thermoelectric transport properties of 2H□R phase niobium diselenide. *Nano Energy*, **2020**, 78, 105197	17.1	3
6	The Optoelectronic Properties of PbS Nanowire Field-Effect Transistors. *IEEE Nanotechnology Magazine*, **2013**, 12, 1135-1138	2.6	2
5	Oxidation Behaviors of Si/Al Pack Cementation Coated Mo□Si□B Alloys at Various Temperatures. *Metals and Materials International*, **2021**, 27, 914-921	2.4	2
4	Experimental verification of semi-metallic band structure in PtSe2 via thermoelectric power measurements. *Applied Physics Letters*, **2022**, 120, 043103	3.4	1
3	Strong enhancement of room-temperature thermoelectric properties of Cu-doped Bi2Te2.7Se0.3. *Applied Physics Letters*, **2022**, 120, 043903	3.4	0
2	Hollow-Structured Bilayer System for Windowpane Insulation. *Journal of Energy Engineering - ASCE*, **2021**, 147, 06021001	1.7	
1	Enhanced Thermoelectric Power Factor in Carrier-Type-Controlled Platinum Diselenide Nanosheets by Molecular Charge-Transfer Doping.. *Small*, **2022**, e2200818	11	