

Min-Wook Oh

List of Publications by Year in descending order

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75
papers

1,862
citations

257101

24
h-index

288905

40
g-index

77
all docs

77
docs citations

77
times ranked

2383
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of ball milling time on the thermoelectric properties of p-type (Bi,Sb) ₂ Te ₃ . Journal of Alloys and Compounds, 2013, 566, 168-174.	2.8	115
2	Colloidal synthesis and thermoelectric properties of La-doped SrTiO ₃ nanoparticles. Journal of Materials Chemistry A, 2014, 2, 4217.	5.2	112
3	Lossless hybridization between photovoltaic and thermoelectric devices. Scientific Reports, 2013, 3, 2123.	1.6	109
4	Post ionized defect engineering of the screen-printed Bi ₂ Te _{2.7} Se _{0.3} thick film for high performance flexible thermoelectric generator. Nano Energy, 2017, 31, 258-263.	8.2	101
5	Herringbone structure in GeTe-based thermoelectric materials. Acta Materialia, 2015, 91, 83-90.	3.8	83
6	Effect of Ag or Sb addition on the thermoelectric properties of PbTe. Journal of Applied Physics, 2010, 108, .	1.1	73
7	Antisite defects in n-type Bi ₂ (Te,Se) ₃ : Experimental and theoretical studies. Journal of Applied Physics, 2014, 115, 133706.	1.1	64
8	Structurally stabilized olivine lithium phosphate cathodes with enhanced electrochemical properties through Fe doping. Energy and Environmental Science, 2011, 4, 4978.	15.6	59
9	Influence of Mn on crystal structure and thermoelectric properties of GeTe compounds. Electronic Materials Letters, 2014, 10, 813-817.	1.0	56
10	Computational Simulations of Thermoelectric Transport Properties. Journal of the Korean Ceramic Society, 2016, 53, 273-281.	1.1	52
11	Enhancement of reproducibility and reliability in a high-performance flexible thermoelectric generator using screen-printed materials. Nano Energy, 2018, 46, 39-44.	8.2	51
12	International Round-Robin Study of the Thermoelectric Transport Properties of an n-Type Half-Heusler Compound from 300ÅK to 773ÅK. Journal of Electronic Materials, 2015, 44, 4482-4491.	1.0	49
13	Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. Scientific Reports, 2014, 4, 6230.	1.6	43
14	Control of Thermoelectric Properties through the addition of Ag in the Bi _{0.5} Sb _{1.5} Te ₃ Alloy. Electronic Materials Letters, 2010, 6, 201-207.	1.0	42
15	Enhanced thermoelectric transport properties of n-type InSe due to the emergence of the flat band by Si doping. Inorganic Chemistry Frontiers, 2019, 6, 1475-1481.	3.0	39
16	Enhanced thermoelectric properties of screen-printed Bi _{0.5} Sb _{1.5} Te ₃ and Bi ₂ Te _{2.7} Se _{0.3} thick films using a post annealing process with mechanical pressure. Journal of Materials Chemistry C, 2017, 5, 8559-8565.	2.7	37
17	Abnormal drop in electrical resistivity with impurity doping of single-crystal Ag. Scientific Reports, 2014, 4, 5450.	1.6	33
18	Thermoelectric properties of non-stoichiometric MnTe compounds. Electronic Materials Letters, 2013, 9, 477-480.	1.0	32

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19	Thermoelectric properties of $\text{AgPb}_{1-x}\text{Sb}_x\text{Te}_{26}$ at elevated temperature. <i>Journal of Applied Physics</i> , 2009, 105, 113703.	1.1	31
20	Prediction of the band structures of Bi_2Te_3 -related binary and Sb/Se-doped ternary thermoelectric materials. <i>Journal of the Korean Physical Society</i> , 2016, 68, 115-120.	0.3	30
21	Thermoelectric properties of Zn_4Sb_3 prepared by hot pressing. <i>Materials Research Bulletin</i> , 2011, 46, 1490-1495.	2.7	29
22	Enhanced thermoelectric properties of AgSbTe_2 obtained by controlling heterophases with Ce doping. <i>Scientific Reports</i> , 2017, 7, 4496.	1.6	29
23	Crystal structure and thermoelectric properties of the type-I clathrate compound Ba_8Ge_43 with an ordered arrangement of Ge vacancies. <i>Journal of Applied Physics</i> , 2006, 99, 033513.	1.1	26
24	Method of Efficient Ag Doping for Fermi Level Tuning of Thermoelectric $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ Alloys Using a Chemical Displacement Reaction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18038-18045.	1.5	25
25	Anisotropy of mobility ratio between electron and hole along different orientations in $\text{Re}_{1-x}\text{Ge}_x\text{Si}_{1.75-x}$ thermoelectric single crystals. <i>Physical Review B</i> , 2005, 71, .	1.1	24
26	Electronic structure and thermoelectric transport properties of AgTlTe : First-principles calculations. <i>Physical Review B</i> , 2008, 77, .	1.1	24
27	Order-disorder transition-induced band nestification in AgBiSe_2 - CuBiSe_2 solid solutions for superior thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4648-4657.	5.2	22
28	Grain growth mechanism and thermoelectric properties of hot press and spark plasma sintered Na-doped PbTe . <i>Journal of Alloys and Compounds</i> , 2019, 786, 515-522.	2.8	21
29	Effects of Al doping on the magnetic properties of ZnCoO and ZnCoO:H . <i>Applied Physics Letters</i> , 2014, 104, 052412.	1.5	19
30	Effect of hydrogen annealing of ball-milled $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ powders on thermoelectric properties. <i>Journal of Alloys and Compounds</i> , 2017, 706, 576-583.	2.8	19
31	Highly Integrated, Wearable Carbon Nanotube Yarn-Based Thermoelectric Generators Achieved by Selective Inkjet-Printed Chemical Doping. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	19
32	Regulating Te Vacancies through Dopant Balancing via Excess Ag Enables Rebounding Power Factor and High Thermoelectric Performance in p-type PbTe . <i>Advanced Science</i> , 2021, 8, e2100895.	5.6	18
33	Effect of microstructure on thermoelectric conversion efficiency in metastable $\hat{\Gamma}$ -phase AgSbTe_2 . <i>Acta Materialia</i> , 2022, 222, 117443.	3.8	18
34	Defects responsible for abnormal n -type conductivity in Ag-excess doped PbTe thermoelectrics. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	17
35	Solution-Processed Hole-Doped SnSe Thermoelectric Thin-Film Devices for Low-Temperature Power Generation. <i>ACS Energy Letters</i> , 2022, 7, 2092-2101.	8.8	17
36	Heat-fueled enzymatic cascade for selective oxyfunctionalization of hydrocarbons. <i>Nature Communications</i> , 2022, 13, .	5.8	17

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37	Enhancement of thermoelectric properties of Mg ₂ Si compounds with Bi doping through carrier concentration tuning. <i>Electronic Materials Letters</i> , 2014, 10, 807-811.	1.0	16
38	Electron transport properties of La-doped AgSbTe ₂ thermoelectric compounds. <i>Electronic Materials Letters</i> , 2011, 7, 255-260.	1.0	15
39	Deposition of n-Type Bi ₂ Te ₃ Thin Films on Polyimide by Using RF Magnetron Co-Sputtering Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 8299-8304.	0.9	15
40	Comparative Study of Thermoelectric Properties of Sb ₂ Si ₂ Te ₆ and Bi ₂ Si ₂ Te ₆ . <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1270-1279.	4.0	15
41	Importance of crystal chemistry with interstitial site determining thermoelectric transport properties in pavonite homologue Cu ²⁺ Bi ³⁺ S compounds. <i>CrystEngComm</i> , 2016, 18, 1453-1461.	1.3	14
42	Control of Carrier Concentration by Ag Doping in N-Type Bi ₂ Te ₃ Based Compounds. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 735.	1.3	14
43	Optimization of thermoelectric properties of n-type Bi ₂ (Te,Se) ₃ with optimizing ball milling time. <i>Rare Metals</i> , 2018, 37, 351-359.	3.6	13
44	Atomic-scale chemical mapping of copper dopants in Bi ₂ Te _{2.7} Se _{0.3} thermoelectric alloy. <i>Materials Today Physics</i> , 2021, 17, 100347.	2.9	13
45	Hidden role of intrinsic Sb-rich nano-precipitates for high-performance Bi ₂ -Sb Te ₃ thermoelectric alloys. <i>Acta Materialia</i> , 2021, 215, 117058.	3.8	13
46	Gate-Controlled Spin-Orbit Interaction in InAs High-Electron Mobility Transistor Layers Epitaxially Transferred onto Si Substrates. <i>ACS Nano</i> , 2013, 7, 9106-9114.	7.3	12
47	Estimation of Power Generation from Thermoelectric Devices: Model Analysis and Performance Measurements. <i>Electronic Materials Letters</i> , 2010, 6, 129-134.	1.0	11
48	Phase stability of L1 ₂ -based alloys in Al-Ti-Cr systems. <i>Intermetallics</i> , 2003, 11, 857-865.	1.8	10
49	Improvement of thermoelectric properties through controlling the carrier concentration of AgPb ₁₈ SbTe ₂₀ alloys by Sb addition. <i>Electronic Materials Letters</i> , 2012, 8, 659-663.	1.0	10
50	Thermoelectric properties of nanoporous three-dimensional graphene networks. <i>Applied Physics Letters</i> , 2014, 105, 033905.	1.5	10
51	Strong correlation between the crystal structure and the thermoelectric properties of pavonite homologue Cu _{x+y} Bi _{5y} Ch ₈ (Ch = S or Se) compounds. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11271-11285.	2.7	9
52	Control of oxygen content of n-type Bi ₂ Te ₃ based compounds by sintering process and their thermoelectric properties. <i>Materials Letters</i> , 2018, 230, 211-214.	1.3	9
53	Fabrication of Skutterudite-Based Tubular Thermoelectric Generator. <i>Energies</i> , 2020, 13, 1106.	1.6	9
54	Evaluation of anisotropic thermoelectric power of ReSi _{1.75} . <i>Physica B: Condensed Matter</i> , 2007, 389, 367-371.	1.3	8

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55	Electron Transport Properties of Rapidly Solidified $(\text{GeTe})_x(\text{AgSbTe}_2)_{1-x}$ Pseudobinary Thermoelectric Compounds. <i>Electronic Materials Letters</i> , 2010, 6, 181-185.	1.0	8
56	Analysis on the Formation of Li_4SiO_4 and Li_2SiO_3 through First Principle Calculations and Comparing with Experimental Data Related to Lithium Battery. <i>Journal of Electrochemical Science and Technology</i> , 2011, 2, 146-151.	0.9	8
57	Structural studies of AgSbTe_2 under pressure: Experimental and theoretical analyses. <i>Current Applied Physics</i> , 2014, 14, 1538-1542.	1.1	8
58	A hybrid method for the synthesis of small $\text{Bi}_0.5\text{Sb}_{1.5}\text{Te}_3$ alloy particles. <i>Journal of Alloys and Compounds</i> , 2017, 696, 1151-1158.	2.8	8
59	First-principles calculation of the electronic structure of HfTe_5 . <i>Solid State Communications</i> , 2008, 146, 454-457.	0.9	7
60	Three-dimensional hierarchical $\text{Te}@\text{Si}$ nanostructures. <i>Nanoscale</i> , 2014, 6, 11697-11702.	2.8	7
61	Thermal conductivity reduction in three dimensional graphene-based nanofoam. <i>RSC Advances</i> , 2015, 5, 99394-99397.	1.7	7
62	Strain-engineered allotrope-like bismuth nanowires for enhanced thermoelectric performance. <i>Acta Materialia</i> , 2018, 144, 145-153.	3.8	7
63	Lithium Alloying Potentials of Silicon as Anode of Lithium Secondary Batteries. <i>Asian Journal of Chemistry</i> , 2013, 25, 5739-5743.	0.1	6
64	Effect of La-doping on AgSbTe_2 thermoelectric compounds. <i>Journal of the Korean Physical Society</i> , 2016, 68, 164-169.	0.3	5
65	Correlation between the magnetic and thermoelectric properties in $\text{Mg}_{2-x}\text{Mn}_x\text{Si}$. <i>Journal of Alloys and Compounds</i> , 2017, 690, 51-56.	2.8	5
66	Electronic Structures and Seebeck Coefficients of Bi_2Te_3 , Sb_2Te_3 , and $(\text{Bi}_{0.25}\text{Sb}_{0.75})_2\text{Te}_3$: A First-Principles Calculation Study. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2015, 10, 391-396.	0.1	4
67	First-principles calculations on electronic structure of PbTe . , 2007, , .		3
68	Anisotropic Thermal Characteristics of Graphene-Embedded Polyimide Composite Sheets. <i>Polymers and Polymer Composites</i> , 2016, 24, 315-321.	1.0	3
69	Crystal Structure and Thermoelectric Properties of Al-containing Re Silicides. <i>Materials Research Society Symposia Proceedings</i> , 2004, 842, 399.	0.1	2
70	Electronic state of manganese dioxide substituted with iron. <i>Metals and Materials International</i> , 2009, 15, 63-67.	1.8	0
71	Effects of nano-domains on thermoelectric properties in telluride system. , 2011, , .		0
72	Fabrication and thermoelectric properties of Na_2CoO_2 by polymerised complex method. <i>International Journal of Nanotechnology</i> , 2018, 15, 528.	0.1	0

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73	Electronic Structure and X-ray Absorption Spectra of Rutile TiO ₂ Using First-Principles Calculations. Journal of Korean Institute of Metals and Materials, 2014, 52, 1025-1029.	0.4	0
74	Reduction of Radioactive Cesium in Contaminated Soil Through Heat Treatment. Science of Advanced Materials, 2017, 9, 2161-2165.	0.1	0
75	Fabrication of conductive silver paste recovered from leaching of waste catalyst using hydrochloric acid. RSC Advances, 2022, 12, 9698-9703.	1.7	0