

# 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  
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77  
docs citations

77  
times ranked

2383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of microstructure on thermoelectric conversion efficiency in metastable $\hat{\Gamma}$ -phase $\text{AgSbTe}_2$ . <i>Acta Materialia</i> , 2022, 222, 117443.	3.8	18
2	Comparative Study of Thermoelectric Properties of $\text{Sb}_2\text{Si}_2\text{Te}_6$ and $\text{Bi}_2\text{Si}_2\text{Te}_6$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 1270-1279.	4.0	15
3	Fabrication of conductive silver paste recovered from leaching of waste catalyst using hydrochloric acid. <i>RSC Advances</i> , 2022, 12, 9698-9703.	1.7	0
4	Highly Integrated, Wearable Carbon Nanotube-Based Thermoelectric Generators Achieved by Selective Inkjet-Printed Chemical Doping. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	19
5	Solution-Processed Hole-Doped $\text{SnSe}$ Thermoelectric Thin-Film Devices for Low-Temperature Power Generation. <i>ACS Energy Letters</i> , 2022, 7, 2092-2101.	8.8	17
6	Heat-fueled enzymatic cascade for selective oxyfunctionalization of hydrocarbons. <i>Nature Communications</i> , 2022, 13, .	5.8	17
7	Order-disorder transition-induced band nestification in $\text{AgBiSe}_2$ - $\text{CuBiSe}_2$ solid solutions for superior thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4648-4657.	5.2	22
8	Atomic-scale chemical mapping of copper dopants in $\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ thermoelectric alloy. <i>Materials Today Physics</i> , 2021, 17, 100347.	2.9	13
9	Regulating Te Vacancies through Dopant Balancing via Excess Ag Enables Rebounding Power Factor and High Thermoelectric Performance in $\text{PbTe}$ . <i>Advanced Science</i> , 2021, 8, e2100895.	5.6	18
10	Hidden role of intrinsic Sb-rich nano-precipitates for high-performance $\text{Bi}_2\text{-Sb}_3\text{Te}_3$ thermoelectric alloys. <i>Acta Materialia</i> , 2021, 215, 117058.	3.8	13
11	Fabrication of Skutterudite-Based Tubular Thermoelectric Generator. <i>Energies</i> , 2020, 13, 1106.	1.6	9
12	Enhanced thermoelectric transport properties of n-type $\text{InSe}$ due to the emergence of the flat band by Si doping. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1475-1481.	3.0	39
13	Grain growth mechanism and thermoelectric properties of hot press and spark plasma sintered Na-doped $\text{PbTe}$ . <i>Journal of Alloys and Compounds</i> , 2019, 786, 515-522.	2.8	21
14	Optimization of thermoelectric properties of n-type $\text{Bi}_2(\text{Te,Se})_3$ with optimizing ball milling time. <i>Rare Metals</i> , 2018, 37, 351-359.	3.6	13
15	Enhancement of reproducibility and reliability in a high-performance flexible thermoelectric generator using screen-printed materials. <i>Nano Energy</i> , 2018, 46, 39-44.	8.2	51
16	Strain-engineered allotrope-like bismuth nanowires for enhanced thermoelectric performance. <i>Acta Materialia</i> , 2018, 144, 145-153.	3.8	7
17	Fabrication and thermoelectric properties of $\text{Na}_x\text{CoO}_{2-y}$ by polymerised complex method. <i>International Journal of Nanotechnology</i> , 2018, 15, 528.	0.1	0
18	Control of oxygen content of n-type $\text{Bi}_2\text{Te}_3$ based compounds by sintering process and their thermoelectric properties. <i>Materials Letters</i> , 2018, 230, 211-214.	1.3	9

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19	Control of Carrier Concentration by Ag Doping in N-Type Bi <sub>2</sub> Te <sub>3</sub> Based Compounds. Applied Sciences (Switzerland), 2018, 8, 735.	1.3	14
20	Effect of hydrogen annealing of ball-milled Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> powders on thermoelectric properties. Journal of Alloys and Compounds, 2017, 706, 576-583.	2.8	19
21	A hybrid method for the synthesis of small Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> alloy particles. Journal of Alloys and Compounds, 2017, 696, 1151-1158.	2.8	8
22	Enhanced thermoelectric properties of screen-printed Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> and Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> thick films using a post annealing process with mechanical pressure. Journal of Materials Chemistry C, 2017, 5, 8559-8565.	2.7	37
23	Enhanced thermoelectric properties of AgSbTe <sub>2</sub> obtained by controlling heterophases with Ce doping. Scientific Reports, 2017, 7, 4496.	1.6	29
24	Post ionized defect engineering of the screen-printed Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> thick film for high performance flexible thermoelectric generator. Nano Energy, 2017, 31, 258-263.	8.2	101
25	Correlation between the magnetic and thermoelectric properties in Mg <sub>2</sub> MnSi. Journal of Alloys and Compounds, 2017, 690, 51-56.	2.8	5
26	Reduction of Radioactive Cesium in Contaminated Soil Through Heat Treatment. Science of Advanced Materials, 2017, 9, 2161-2165.	0.1	0
27	Anisotropic Thermal Characteristics of Graphene-Embedded Polyimide Composite Sheets. Polymers and Polymer Composites, 2016, 24, 315-321.	1.0	3
28	Effect of La-doping on AgSbTe <sub>2</sub> thermoelectric compounds. Journal of the Korean Physical Society, 2016, 68, 164-169.	0.3	5
29	Importance of crystal chemistry with interstitial site determining thermoelectric transport properties in pavonite homologue Cu <sub>1-x</sub> Bi <sub>x</sub> S compounds. CrystEngComm, 2016, 18, 1453-1461.	1.3	14
30	Prediction of the band structures of Bi <sub>2</sub> Te <sub>3</sub> -related binary and Sb/Se-doped ternary thermoelectric materials. Journal of the Korean Physical Society, 2016, 68, 115-120.	0.3	30
31	Computational Simulations of Thermoelectric Transport Properties. Journal of the Korean Ceramic Society, 2016, 53, 273-281.	1.1	52
32	Deposition of n-Type Bi <sub>2</sub> Te <sub>3</sub> Thin Films on Polyimide by Using RF Magnetron Co-Sputtering Method. Journal of Nanoscience and Nanotechnology, 2015, 15, 8299-8304.	0.9	15
33	Method of Efficient Ag Doping for Fermi Level Tuning of Thermoelectric Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> Alloys Using a Chemical Displacement Reaction. Journal of Physical Chemistry C, 2015, 119, 18038-18045.	1.5	25
34	Herringbone structure in GeTe-based thermoelectric materials. Acta Materialia, 2015, 91, 83-90.	3.8	83
35	Strong correlation between the crystal structure and the thermoelectric properties of pavonite homologue Cu <sub>x+y</sub> Bi <sub>5-2y</sub> Ch <sub>8</sub> (Ch = S or Se) compounds. Journal of Materials Chemistry C, 2015, 3, 11271-11285.	2.7	9
36	International Round-Robin Study of the Thermoelectric Transport Properties of an n-Type Half-Heusler Compound from 300 K to 773 K. Journal of Electronic Materials, 2015, 44, 4482-4491.	1.0	49

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37	Defects responsible for abnormal $n$ -type conductivity in Ag-excess doped PbTe thermoelectrics. Journal of Applied Physics, 2015, 118, .	1.1	17
38	Thermal conductivity reduction in three dimensional graphene-based nanofoam. RSC Advances, 2015, 5, 99394-99397.	1.7	7
39	Electronic Structures and Seebeck Coefficients of $\text{Bi}_2\text{Te}_3$ , $\text{Sb}_2\text{Te}_3$ , and $(\text{Bi}_{0.25}\text{Sb}_{0.75})_2\text{Te}_3$ : A First-Principles Calculation Study. Journal of Nanoelectronics and Optoelectronics, 2015, 10, 391-396.	0.1	4
40	Effects of Al doping on the magnetic properties of ZnCoO and ZnCoO:H. Applied Physics Letters, 2014, 104, 052412.	1.5	19
41	Thermoelectric properties of nanoporous three-dimensional graphene networks. Applied Physics Letters, 2014, 105, 033905.	1.5	10
42	Antisite defects in $n$ -type $\text{Bi}_2(\text{Te,Se})_3$ : Experimental and theoretical studies. Journal of Applied Physics, 2014, 115, 133706.	1.1	64
43	Three-dimensional hierarchical $\text{Te-Si}$ nanostructures. Nanoscale, 2014, 6, 11697-11702.	2.8	7
44	Structural studies of $\text{AgSbTe}_2$ under pressure: Experimental and theoretical analyses. Current Applied Physics, 2014, 14, 1538-1542.	1.1	8
45	Enhancement of thermoelectric properties of $\text{Mg}_2\text{Si}$ compounds with Bi doping through carrier concentration tuning. Electronic Materials Letters, 2014, 10, 807-811.	1.0	16
46	Influence of Mn on crystal structure and thermoelectric properties of GeTe compounds. Electronic Materials Letters, 2014, 10, 813-817.	1.0	56
47	Colloidal synthesis and thermoelectric properties of La-doped $\text{SrTiO}_3$ nanoparticles. Journal of Materials Chemistry A, 2014, 2, 4217.	5.2	112
48	Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. Scientific Reports, 2014, 4, 6230.	1.6	43
49	Abnormal drop in electrical resistivity with impurity doping of single-crystal Ag. Scientific Reports, 2014, 4, 5450.	1.6	33
50	Electronic Structure and X-ray Absorption Spectra of Rutile $\text{TiO}_2$ Using First-Principles Calculations. Journal of Korean Institute of Metals and Materials, 2014, 52, 1025-1029.	0.4	0
51	Thermoelectric properties of non-stoichiometric MnTe compounds. Electronic Materials Letters, 2013, 9, 477-480.	1.0	32
52	Lossless hybridization between photovoltaic and thermoelectric devices. Scientific Reports, 2013, 3, 2123.	1.6	109
53	Gate-Controlled Spin-Orbit Interaction in InAs High-Electron Mobility Transistor Layers Epitaxially Transferred onto Si Substrates. ACS Nano, 2013, 7, 9106-9114.	7.3	12
54	Effect of ball milling time on the thermoelectric properties of $p$ -type $(\text{Bi,Sb})_2\text{Te}_3$ . Journal of Alloys and Compounds, 2013, 566, 168-174.	2.8	115

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55	Lithium Alloying Potentials of Silicon as Anode of Lithium Secondary Batteries. Asian Journal of Chemistry, 2013, 25, 5739-5743.	0.1	6
56	Improvement of thermoelectric properties through controlling the carrier concentration of AgPb <sub>18</sub> SbTe <sub>20</sub> alloys by Sb addition. Electronic Materials Letters, 2012, 8, 659-663.	1.0	10
57	Effects of nano-domains on thermoelectric properties in telluride system. , 2011, , .		0
58	Analysis on the Formation of Li <sub>4</sub> SiO <sub>4</sub> and Li <sub>2</sub> SiO <sub>3</sub> through First Principle Calculations and Comparing with Experimental Data Related to Lithium Battery. Journal of Electrochemical Science and Technology, 2011, 2, 146-151.	0.9	8
59	Thermoelectric properties of Zn <sub>4</sub> Sb <sub>3</sub> prepared by hot pressing. Materials Research Bulletin, 2011, 46, 1490-1495.	2.7	29
60	Structurally stabilized olivine lithium phosphate cathodes with enhanced electrochemical properties through Fe doping. Energy and Environmental Science, 2011, 4, 4978.	15.6	59
61	Electron transport properties of La-doped AgSbTe <sub>2</sub> thermoelectric compounds. Electronic Materials Letters, 2011, 7, 255-260.	1.0	15
62	Estimation of Power Generation from Thermoelectric Devices: Model Analysis and Performance Measurements. Electronic Materials Letters, 2010, 6, 129-134.	1.0	11
63	Electron Transport Properties of Rapidly Solidified (GeTe) <sub>x</sub> (AgSbTe <sub>2</sub> ) <sub>1-x</sub> Pseudobinary Thermoelectric Compounds. Electronic Materials Letters, 2010, 6, 181-185.	1.0	8
64	Control of Thermoelectric Properties through the addition of Ag in the Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> Alloy. Electronic Materials Letters, 2010, 6, 201-207.	1.0	42
65	Effect of Ag or Sb addition on the thermoelectric properties of PbTe. Journal of Applied Physics, 2010, 108, .	1.1	73
66	Thermoelectric properties of AgPbmSbTem+2 (12âmâ26) at elevated temperature. Journal of Applied Physics, 2009, 105, 113703.	1.1	31
67	Electronic state of manganese dioxide substituted with iron. Metals and Materials International, 2009, 15, 63-67.	1.8	0
68	First-principles calculation of the electronic structure of HfTe <sub>5</sub> . Solid State Communications, 2008, 146, 454-457.	0.9	7
69	Electronic structure and thermoelectric transport properties of AgTlTe: First-principles calculations. Physical Review B, 2008, 77, .	1.1	24
70	First-principles calculations on electronic structure of PbTe. , 2007, , .		3
71	Evaluation of anisotropic thermoelectric power of ReSi <sub>1.75</sub> . Physica B: Condensed Matter, 2007, 389, 367-371.	1.3	8
72	Crystal structure and thermoelectric properties of the type-I clathrate compound Ba <sub>8</sub> Ge <sub>43</sub> with an ordered arrangement of Ge vacancies. Journal of Applied Physics, 2006, 99, 033513.	1.1	26

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73	Anisotropy of mobility ratio between electron and hole along different orientations in $\text{Re}_{1-x}\text{GexSi}_{1.75x}$ thermoelectric single crystals. <i>Physical Review B</i> , 2005, 71, .	1.1	24
74	Crystal Structure and Thermoelectric Properties of Al-containing Re Silicides. <i>Materials Research Society Symposia Proceedings</i> , 2004, 842, 399.	0.1	2
75	Phase stability of L12-based alloys in Al-Ti-Cr systems. <i>Intermetallics</i> , 2003, 11, 857-865.	1.8	10