

Mi-Kyung Han

List of Publications by Year in descending order

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30
papers

731
citations

567281

15
h-index

526287

27
g-index

32
all docs

32
docs citations

32
times ranked

1173
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Cu nanoparticles in layered Bi ₂ Te ₃ and their effect on ZT enhancement. Journal of Materials Chemistry, 2011, 21, 11365.	6.7	94
2	Effect of Nb on the Microstructure, Mechanical Properties, Corrosion Behavior, and Cytotoxicity of Ti-Nb Alloys. Materials, 2015, 8, 5986-6003.	2.9	85
3	Lead-Free Thermoelectrics: High Figure of Merit in p-type Ag _m SbTe _{m+2} . Advanced Energy Materials, 2012, 2, 157-161.	19.5	74
4	Thermoelectric Properties of Bi ₂ Te ₃ : CuI and the Effect of Its Doping with Pb Atoms. Materials, 2017, 10, 1235.	2.9	74
5	Gigantic Phonon-Scattering Cross Section To Enhance Thermoelectric Performance in Bulk Crystals. ACS Nano, 2019, 13, 8347-8355.	14.6	54
6	Synthesis of heavily Cu-doped Bi ₂ Te ₃ nanoparticles and their thermoelectric properties. Journal of Solid State Chemistry, 2019, 270, 407-412.	2.9	29
7	Effect of Indium Content on the Microstructure, Mechanical Properties and Corrosion Behavior of Titanium Alloys. Metals, 2015, 5, 850-862.	2.3	23
8	Increase in the Figure of Merit by Cd-Substitution in Sn _{1-x} Pb _x Te and Effect of Pb/Sn Ratio on Thermoelectric Properties. Advanced Energy Materials, 2012, 2, 1218-1225.	19.5	22
9	Temperature-Induced Lifshitz Transition and Charge Density Wave in InTe ¹¹¹ Thermoelectric Materials. ACS Applied Energy Materials, 2020, 3, 3628-3636.	5.1	21
10	Synergistic Interaction of MoS ₂ Nanoflakes on La ₂ Zr ₂ O ₇ Nanofibers for Improving Photoelectrochemical Nitrogen Reduction. ACS Applied Materials & Interfaces, 2022, 14, 31889-31899.	8.0	21
11	Massive Transformation in Titanium-Silver Alloys and Its Effect on Their Mechanical Properties and Corrosion Behavior. Materials, 2014, 7, 6194-6206.	2.9	20
12	Effects of Bi ₂ Se ₃ Nanoparticle Inclusions on the Microstructure and Thermoelectric Properties of Bi ₂ Te ₃ -Based Nanocomposites. Journal of Electronic Materials, 2012, 41, 3411-3416.	2.2	18
13	Effect of gold addition on the microstructure, mechanical properties and corrosion behavior of Ti alloys. Gold Bulletin, 2014, 47, 153-160.	2.4	18
14	A synergistic effect of metal iodide doping on the thermoelectric properties of Bi ₂ Te ₃ . Inorganic Chemistry Frontiers, 2017, 4, 881-888.	6.0	18
15	Improved thermoelectric properties of n-type Bi ₂ Te ₃ alloy deriving from two-phased heterostructure by the reduction of CuI with Sn. Journal of Materials Science: Materials in Electronics, 2019, 30, 1282-1291.	2.2	15
16	Effect of Chromium Doping on the Thermoelectric Properties of Bi ₂ Te ₃ : Cr _x Bi ₂ Te ₃ and Cr _x Bi _{2-x} Te ₃ . Journal of Electronic Materials, 2013, 42, 2758-2763.	2.2	14
17	Cationic Site-Preference in the Yb _{14-x} CaxAlSb ₁₁ (4.81 ≤ x ≤ 10.57) Series: Theoretical and Experimental Studies. Materials, 2016, 9, 553.	2.9	14
18	Sulfur to oxygen substitution in BiOCuSe and its effect on the thermoelectric properties. Journal of Materials Chemistry A, 2016, 4, 13859-13865.	10.3	14

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19	Thermoelectric properties of $W_{1-x}Nb_xSe_2$ polycrystalline compounds. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6060-6067.	3.8	14
20	Lithium-Filled Double-Deck Layered Structure of the $RELi_xCu_{2-y}P_2$ (RE= La, Pr, Nd, Gd, Er; 0.82 ≤ x ≤ 1; 1.19) <i>Tj ETQq0 0 0 rgBT /Overl</i> 2015, 2786-2793.	2.0	13
21	Enhancement of thermoelectric performance in a non-toxic $CuInTe_2/SnTe$ coated grain nanocomposite. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14851-14858.	10.3	12
22	Morphology Control of Bi_2S_3 Nanostructures and the Formation Mechanism. <i>Chinese Journal of Chemistry</i> , 2013, 31, 752-756.	4.9	11
23	Interfacial Thermal Contact Conductance inside the Graphene- Bi_2Te_3 Heterostructure. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900275.	3.7	9
24	Size-Controlled Au- Cu_2Se Core-Shell Nanoparticles and Their Thermoelectric Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36589-36599.	8.0	9
25	A Simple and Quick Chemical Synthesis of Nanostructured Bi_2Te_3 , Sb_2Te_3 , and $BixSb_{2-x}Te_3$. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 1123-1127.	1.9	8
26	Microstructure Analysis of Ti-xPt Alloys and the Effect of Pt Content on the Mechanical Properties and Corrosion Behavior of Ti Alloys. <i>Materials</i> , 2014, 7, 3990-4000.	2.9	5
27	Early stage of the single-crystal growth and tipping point of the cationic site preference in Gd-doped Zintl phase thermoelectric materials. <i>CrystEngComm</i> , 2021, 23, 7097-7107.	2.6	2
28	Enhancement of thermoelectric properties by partial substitution of Ge sites in anion ring $[Ge_2S_2]_4$ -found in $Co_2Ge_3S_3$ skutterudite-based material. <i>Journal of Solid State Chemistry</i> , 2020, 292, 121590.	2.9	1
29	Effect of chromium content on thermoelectric properties of Bi_2Te_3 . , 2011, , .		0
30	Influence of surface modification on thermoelectric properties of Bi_2Te_3 nanowires. , 2011, , .		0