

Guang Han

List of Publications by Citations

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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.

81
papers

2,544
citations

25
h-index

49
g-index

86
ext. papers

3,148
ext. citations

9
avg, IF

5.24
L-index

#	Paper	IF	Citations
81	Nanostructured thermoelectric materials: Current research and future challenge. <i>Progress in Natural Science: Materials International</i> , 2012 , 22, 535-549	3.6	485
80	Indium selenides: structural characteristics, synthesis and their thermoelectric performances. <i>Small</i> , 2014 , 10, 2747-65	11	201
79	High-performance thermoelectric Cu ₂ Se nanoplates through nanostructure engineering. <i>Nano Energy</i> , 2015 , 16, 367-374	17.1	169
78	Enhanced Thermoelectric Performance of Nanostructured Bi ₂ Te ₃ through Significant Phonon Scattering. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23694-9	9.5	155
77	n-type Bi-doped PbTe Nanocubes with Enhanced Thermoelectric Performance. <i>Nano Energy</i> , 2017 , 31, 105-112	17.1	84
76	Texture-dependent thermoelectric properties of nano-structured Bi ₂ Te ₃ . <i>Chemical Engineering Journal</i> , 2020 , 388, 124295	14.7	72
75	Facile Surfactant-Free Synthesis of p-Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6433-7	16.4	71
74	Facile in situ solution synthesis of SnSe/rGO nanocomposites with enhanced thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1394-1402	13	70
73	Te-Doped Cu ₂ Se nanoplates with a high average thermoelectric figure of merit. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9213-9219	13	67
72	Impacts of Cu deficiency on the thermoelectric properties of Cu ₂ Se nanoplates. <i>Acta Materialia</i> , 2016 , 113, 140-146	8.4	58
71	In-doped Bi ₂ Se ₃ hierarchical nanostructures as anode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7109	13	52
70	T-Shaped Bi ₂ Te ₃ /Te Heteronanojunctions: Epitaxial Growth, Structural Modeling, and Thermoelectric Properties. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12458-12464	3.8	51
69	Enhanced Thermoelectric Performance of Ultrathin Bi ₂ Se ₃ Nanosheets through Thickness Control. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500025	6.4	49
68	Chlorine-Enabled Electron Doping in Solution-Synthesized SnSe Thermoelectric Nanomaterials. <i>Advanced Energy Materials</i> , 2017 , 7, 1602328	21.8	48
67	Rational design of Bi ₂ Te ₃ polycrystalline whiskers for thermoelectric applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 989-95	9.5	47
66	Understanding the stepwise capacity increase of high energy low-Co Li-rich cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18767-18774	13	43
65	Twin Engineering in Solution-Synthesized Nonstoichiometric Cu ₅ FeS ₄ Icosahedral Nanoparticles for Enhanced Thermoelectric Performance. <i>Advanced Functional Materials</i> , 2018 , 28, 1705117	15.6	37

64	Phase control and formation mechanism of AlMn(Be) intermetallic particles in MgAl-based alloys with FeCl ₃ addition or melt superheating. <i>Acta Materialia</i> , 2016 , 114, 54-66	8.4	35
63	Realizing Bi-doped BiCu ₂ Se as a promising near-room-temperature thermoelectric material. <i>Chemical Engineering Journal</i> , 2019 , 371, 593-599	14.7	34
62	High Curie temperature Bi(1.85)Mn(0.15)Te ₃ nanoplates. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18920-3	16.4	29
61	Thermal performance of two heat exchangers for thermoelectric generators. <i>Case Studies in Thermal Engineering</i> , 2016 , 8, 164-175	5.6	28
60	Grain refinement of MgAl based alloys by a new AlTi master alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 467, 202-207	5.7	27
59	Multiphysics simulations of thermoelectric generator modules with cold and hot blocks and effects of some factors. <i>Case Studies in Thermal Engineering</i> , 2017 , 10, 63-72	5.6	26
58	Enhancing the Thermoelectric Performance of p-Type MgSb via Codoping of Li and Cd. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8359-8365	9.5	25
57	A new crystal: layer-structured rhombohedral In ₃ Se ₄ . <i>CrystEngComm</i> , 2014 , 16, 393-398	3.3	25
56	Topotactic anion-exchange in thermoelectric nanostructured layered tin chalcogenides with reduced selenium content. <i>Chemical Science</i> , 2018 , 9, 3828-3836	9.4	24
55	General surfactant-free synthesis of binary silver chalcogenides with tuneable thermoelectric properties. <i>Chemical Engineering Journal</i> , 2020 , 393, 124763	14.7	22
54	Melt-spun Sn _{1-x} Bi _x MnTe with unique multiscale microstructures approaching exceptional average thermoelectric zT. <i>Nano Energy</i> , 2021 , 84, 105879	17.1	21
53	Strong lattice anharmonicity securing intrinsically low lattice thermal conductivity and high performance thermoelectric SnSb ₂ Te ₄ via Se alloying. <i>Nano Energy</i> , 2020 , 76, 105084	17.1	20
52	Grain refinement of AZ31 magnesium alloy by new Al-Ti-C master alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2009 , 19, 1057-1064	3.3	20
51	High thermoelectric performance of CuSbSe nanocrystals with CuSe in situ inclusions synthesized by a microwave-assisted solvothermal method. <i>Nanoscale</i> , 2018 , 10, 14546-14553	7.7	19
50	Paramagnetic Cu-doped Bi ₂ Te ₃ nanoplates. <i>Applied Physics Letters</i> , 2014 , 104, 053105	3.4	19
49	Thermal stability and oxidation of layer-structured rhombohedral In ₃ Se ₄ nanostructures. <i>Applied Physics Letters</i> , 2013 , 103, 263105	3.4	19
48	Duplex nucleation in MgAlZnMn alloys with carbon inoculation. <i>Journal of Alloys and Compounds</i> , 2009 , 487, 194-197	5.7	19
47	Conceptual design and performance evaluation of a hybrid concentrating photovoltaic system in preparation for energy. <i>Energy</i> , 2018 , 147, 547-560	7.9	18

46	Large-Scale Surfactant-Free Synthesis of p-Type SnTe Nanoparticles for Thermoelectric Applications. <i>Materials</i> , 2017 , 10,	3.5	18
45	Realizing enhanced thermoelectric properties in Cu ₂ S-alloyed SnSe based composites produced via solution synthesis and sintering. <i>Journal of Materials Science and Technology</i> , 2021 , 78, 121-130	9.1	18
44	A coupled optical-thermal-electrical model to predict the performance of hybrid PV/T-CCPC roof-top systems. <i>Renewable Energy</i> , 2017 , 112, 166-186	8.1	17
43	Grain refining efficiency of a new Al _{0.6} B _{0.6} C master alloy on AZ63 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2010 , 491, 165-169	5.7	17
42	Effect of manganese on the microstructure of Mg ₃ Al alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 486, 136-141	5.7	17
41	Nanostructured monoclinic CuSe as a near-room-temperature thermoelectric material. <i>Nanoscale</i> , 2020 , 12, 20536-20542	7.7	17
40	A novel absorptive/reflective solar concentrator for heat and electricity generation: An optical and thermal analysis. <i>Energy Conversion and Management</i> , 2016 , 114, 142-153	10.6	16
39	Trifold Tellurium One-Dimensional Nanostructures and Their Formation Mechanism. <i>Crystal Growth and Design</i> , 2013 , 13, 4796-4802	3.5	16
38	Phase Control and Formation Mechanism of New-Phase Layer-Structured Rhombohedral In ₃ Se ₄ Hierarchical Nanostructures. <i>Crystal Growth and Design</i> , 2013 , 13, 5092-5099	3.5	15
37	Ba ₆ B _x Nd _{8+2x} Ti ₁₈ O ₅₄ Tungsten Bronze: A New High-Temperature n-Type Oxide Thermoelectric. <i>Journal of Electronic Materials</i> , 2016 , 45, 1894-1899	1.9	14
36	Morphology and Texture Engineering Enhancing Thermoelectric Performance of Solvothermal Synthesized Ultralarge SnS Microcrystal. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2192-2199	6.1	12
35	Structure-Dependent Thermoelectric Properties of GeSeTe (0 ≤ x ≤ 0.5). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41381-41389	9.5	12
34	Anion-exchange synthesis of thermoelectric layered SnS _{0.1} Se _{0.9} Tex nano/microstructures in aqueous solution: complexity and carrier concentration. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7572-7579	7.1	11
33	In ₃ Se ₄ and S-doped In ₃ Se ₄ nano/micro-structures as new anode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7560-7567	13	11
32	Facile microwave-assisted hydrothermal synthesis of SnSe: impurity removal and enhanced thermoelectric properties. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10333-10341	7.1	11
31	Achieving Enhanced Thermoelectric Performance in (SnTe)(SbTe) and (SnTe)(SbSe) Synthesized via Solvothermal Reaction and Sintering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44805-44814	9.5	11
30	Co-doped Sb ₂ Te ₃ paramagnetic nanoplates. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 521-525	7.1	10
29	Long wavelength emissions of Se ⁴⁺ -doped In ₂ O ₃ hierarchical nanostructures. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6529	7.1	8

28	Exceptional Performance Driven by Planar Honeycomb Structure in a New High Temperature Thermoelectric Material BaAgAs. <i>Advanced Functional Materials</i> , 2021 , 31, 2100583	15.6	8
27	Facile Surfactant-Free Synthesis of p-Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. <i>Angewandte Chemie</i> , 2016 , 128, 6543-6547	3.6	8
26	Realizing Cd and Ag codoping in p-type Mg ₃ Sb ₂ toward high thermoelectric performance. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	7
25	Dynamic Epitaxial Crystallization of SnSe on the Oxidized SnSe Surface and Its Atomistic Mechanisms. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	6
24	A scaling law for monocrystalline PV/T modules with CCPC and comparison with triple junction PV cells. <i>Applied Energy</i> , 2017 , 202, 755-771	10.7	6
23	Unconventional Doping Effect Leads to Ultrahigh Average Thermoelectric Power Factor in Cu SbSe -based Composites.. <i>Advanced Materials</i> , 2022 , e2109952	24	6
22	Realizing Enhanced Thermoelectric Performance and Hardness in Icosahedral Cu FeS Se with High-Density Twin Boundaries. <i>Small</i> , 2021 , e2104592	11	6
21	Exploring thermoelectric performance of Ca ₃ Co ₄ O ₉ + ceramics via chemical electroless plating with Cu. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153522	5.7	5
20	Regulating the electronic structure of ReS ₂ by Mo doping for electrocatalysis and lithium storage. <i>Chemical Engineering Journal</i> , 2021 , 414, 128811	14.7	5
19	Achieving enhanced thermoelectric performance of Ca _{1-x} LaxSryMnO ₃ via synergistic carrier concentration optimization and chemical bond engineering. <i>Chemical Engineering Journal</i> , 2021 , 408, 127364	14.7	5
18	Manipulating the phase transformation temperature to achieve cubic Cu ₅ Fe ₄ Se ₆ and enhanced thermoelectric performance. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 17222-17228	7.1	4
17	Constructing n-type Ag ₂ Se/CNTs composites toward synergistically enhanced thermoelectric and mechanical performance. <i>Acta Materialia</i> , 2022 , 223, 117502	8.4	4
16	A new indium selenide phase: controllable synthesis, phase transformation and photoluminescence properties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13573-13584	7.1	4
15	Thermoelectric performance of binary lithium-based compounds: Li ₃ Sb and Li ₃ Bi. <i>Applied Physics Letters</i> , 2021 , 119, 033901	3.4	4
14	Phase Composition Manipulation and Twin Boundary Engineering Lead to Enhanced Thermoelectric Performance of Cu ₂ SnS ₃ . <i>ACS Applied Energy Materials</i> , 2021 , 4, 9240-9247	6.1	4
13	Structural Core-Shell beyond Chemical Homogeneity in Non-Stoichiometric CuFeS Nano-Icosahedrons: An in Situ Heating TEM Study. <i>Nanomaterials</i> , 2019 , 10,	5.4	3
12	Phase Modulation Enabled High Thermoelectric Performance in Polycrystalline GeSe _{0.75} Te _{0.25} . <i>Advanced Functional Materials</i> , 2021 , 2111238	15.6	3
11	Ultralow Lattice Thermal Conductivity of Cubic CuFeS ₂ Induced by Atomic Disorder. <i>Chemistry of Materials</i> , 2021 , 33, 9795-9802	9.6	3

10	Band convergence and thermoelectric performance enhancement of InSb via Bi doping. <i>Intermetallics</i> , 2021 , 139, 107347	3.5	2
9	Nitrogen-doped activated porous carbon for 4.5V lithium-ion capacitor with high energy and power density. <i>Journal of Energy Storage</i> , 2021 , 47, 103675	7.8	1
8	Identification of vibrational mode symmetry and phonon anharmonicity in SbCrSe3 single crystal using Raman spectroscopy. <i>Science China Materials</i> , 2021 , 64, 2824-2834	7.1	1
7	Solution-Synthesized SnSeS: Dual-Functional Materials with Enhanced Electrochemical Storage and Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37201-37211	9.5	1
6	A new insight into heterogeneous nucleation mechanism of Al by non-stoichiometric TiCx. <i>Acta Materialia</i> , 2022 , 233, 117977	8.4	1
5	Simultaneously optimized thermoelectric and mechanical performance of p-type polycrystalline SnSe enabled by CNTs addition. <i>Scripta Materialia</i> , 2022 , 218, 114846	5.6	1
4	Phase Tuning for Enhancing the Thermoelectric Performance of Solution-Synthesized CuS. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39541-39549	9.5	0
3	Self-assembled epitaxy of Ga2Se3 on the oxidized GaSe surface and atomic imaging of the Ga2Se3/GaSe heterostructure. <i>Applied Surface Science</i> , 2022 , 586, 152774	6.7	0
2	Attaining enhanced thermoelectric performance in p-type (SnSe)1-x(SnS2)x produced via sintering their solution-synthesized micro/nanostructures. <i>Journal of Materials Science and Technology</i> , 2022 , 120, 205-213	9.1	0
1	Revealing the intrinsic p-to-n transition mechanism on Mg3Sb2 through extra Mg. <i>Applied Physics Letters</i> , 2022 , 120, 173902	3.4	0