

Min Hong

List of Publications by Year in Descending Order

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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.

61
papers

3,920
citations

34
h-index

62
g-index

63
ext. papers

4,816
ext. citations

13.4
avg, IF

5.92
L-index

#	Paper	IF	Citations
61	Optimal array alignment to deliver high performance in flexible conducting polymer-based thermoelectric devices. <i>Journal of Materials Science and Technology</i> , 2022 , 124, 252-259	9.1	1
60	The effect of rare earth element doping on thermoelectric properties of GeTe. <i>Chemical Engineering Journal</i> , 2022 , 446, 137278	14.7	1
59	Native Atomic Defects Manipulation for Enhancing the Electronic Transport Properties of Epitaxial SnTe Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56446-56455	9.5	
58	Achieving High-Performance Ge Bi Te Thermoelectrics via LaB -Alloying-Induced Band Engineering and Multi-Scale Structure Manipulation. <i>Small</i> , 2021 , e2105923	11	2
57	Two-dimensional flexible thermoelectric devices: Using modeling to deliver optimal capability. <i>Applied Physics Reviews</i> , 2021 , 8, 041404	17.3	9
56	Rare-Earth Nd Inducing Record-High Thermoelectric Performance of (GeTe) ₈₅ (AgSbTe ₂) ₁₅ . <i>Energy Material Advances</i> , 2021 , 2021, 1-8	1	4
55	Versatile Vanadium Doping Induces High Thermoelectric Performance in GeTe via Band Alignment and Structural Modulation. <i>Advanced Energy Materials</i> , 2021 , 11, 2100544	21.8	18
54	High-efficiency thermocells driven by thermo-electrochemical processes. <i>Trends in Chemistry</i> , 2021 , 3, 561-574	14.8	19
53	Synthesis of thermoelectric materials 2021 , 73-103		1
52	Optimizing Electronic Quality Factor toward High-Performance Ge Ta Sb Te Thermoelectrics: The Role of Transition Metal Doping. <i>Advanced Materials</i> , 2021 , 33, e2102575	24	24
51	Thermoelectric performance of p-type (Bi,Sb) ₂ Te ₃ incorporating amorphous Sb ₂ S ₃ nanospheres. <i>Chemical Engineering Journal</i> , 2021 , 430, 132738	14.7	5
50	Computer-aided design of high-efficiency GeTe-based thermoelectric devices. <i>Energy and Environmental Science</i> , 2020 , 13, 1856-1864	35.4	73
49	Bi _{0.5} Sb _{1.5} Te ₃ /PEDOT:PSS-based flexible thermoelectric film and device. <i>Chemical Engineering Journal</i> , 2020 , 397, 125360	14.7	66
48	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. <i>Sustainable Materials and Technologies</i> , 2020 , 25, e00183	5.3	2
47	Establishing the Golden Range of Seebeck Coefficient for Maximizing Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2672-2681	16.4	82
46	Computation-guided design of high-performance flexible thermoelectric modules for sunlight-to-electricity conversion. <i>Energy and Environmental Science</i> , 2020 , 13, 3480-3488	35.4	27
45	Enhanced thermoelectric properties of nanostructured n-type Bi ₂ Te ₃ by suppressing Te vacancy through non-equilibrium fast reaction. <i>Chemical Engineering Journal</i> , 2020 , 391, 123513	14.7	58

44	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. <i>Joule</i> , 2020 , 4, 2030-2043	27.8	90
43	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36370-36379 ⁸	9.5	8
42	Crystal symmetry induced structure and bonding manipulation boosting thermoelectric performance of GeTe. <i>Nano Energy</i> , 2020 , 73, 104740	17.1	42
41	Realizing Bi-doped ECu ₂ Se as a promising near-room-temperature thermoelectric material. <i>Chemical Engineering Journal</i> , 2019 , 371, 593-599	14.7	34
40	Nanoscale pores plus precipitates rendering high-performance thermoelectric SnTe _{1-x} Sex with refined band structures. <i>Nano Energy</i> , 2019 , 60, 1-7	17.1	66
39	Separable and recyclable meso-carbon@TiO ₂ /carbon fiber composites for visible-light photocatalysis and photoelectrocatalysis. <i>Sustainable Materials and Technologies</i> , 2019 , 21, e00105	5.3	13
38	High Thermoelectric Performance in p-type Polycrystalline Cd-doped SnSe Achieved by a Combination of Cation Vacancies and Localized Lattice Engineering. <i>Advanced Energy Materials</i> , 2019 , 9, 1803242	21.8	99
37	Thermoelectric GeTe with Diverse Degrees of Freedom Having Secured Superhigh Performance. <i>Advanced Materials</i> , 2019 , 31, e1807071	24	134
36	High Porosity in Nanostructured -Type BiTe Obtaining Ultralow Lattice Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31237-31244	9.5	50
35	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. <i>Chemistry of Materials</i> , 2019 , 31, 5238-5244	9.6	102
34	Strong Phonon-Phonon Interactions Securing Extraordinary Thermoelectric GeSb Te with Zn-Alloying-Induced Band Alignment. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1742-1748	16.4	145
33	Real-time observation of the thermally-induced phase transformation in GeTe and its thermal expansion properties. <i>Acta Materialia</i> , 2019 , 165, 327-335	8.4	8
32	Exploring the underlying mechanisms behind the increased far infrared radiation properties of perovskite-type Ce/Mn co-doped ceramics. <i>Materials Research Bulletin</i> , 2019 , 109, 233-239	5.1	4
31	Self-assembled 3D flower-like hierarchical Ti-doped Cu ₃ SbSe ₄ microspheres with ultralow thermal conductivity and high zT. <i>Nano Energy</i> , 2018 , 49, 221-229	17.1	29
30	Realizing zT of 2.3 in Ge Sb In Te via Reducing the Phase-Transition Temperature and Introducing Resonant Energy Doping. <i>Advanced Materials</i> , 2018 , 30, 1705942	24	228
29	Achieving zT > 2 in p-Type AgSbTe _{2-x} Sex Alloys via Exploring the Extra Light Valence Band and Introducing Dense Stacking Faults. <i>Advanced Energy Materials</i> , 2018 , 8, 1702333	21.8	100
28	Atomic Insights into Phase Evolution in Ternary Transition-Metal Dichalcogenides Nanostructures. <i>Small</i> , 2018 , 14, e1800780	11	8
27	Achieving high Figure of Merit in p-type polycrystalline Sn _{0.98} Se via self-doping and anisotropy-strengthening. <i>Energy Storage Materials</i> , 2018 , 10, 130-138	19.4	79

26	Boosting the thermoelectric performance of p-type heavily Cu-doped polycrystalline SnSe inducing intensive crystal imperfections and defect phonon scattering. <i>Chemical Science</i> , 2018 , 9, 7376-7389	9.4	91
25	Achieving high thermoelectric performance of Ni/Cu modified Bi _{0.5} Sb _{1.5} Te ₃ composites by a facile electroless plating. <i>Materials Today Energy</i> , 2018 , 9, 383-390	7	16
24	Fundamental and progress of Bi ₂ Te ₃ -based thermoelectric materials. <i>Chinese Physics B</i> , 2018 , 27, 048403	40.3	68
23	Enhancing thermoelectric performance of (Cu _{1-x} Ag _x) ₂ Se via CuAgSe secondary phase and porous design. <i>Sustainable Materials and Technologies</i> , 2018 , 17, e00076	5.3	20
22	Nano-scale dislocations induced by self-vacancy engineering yielding extraordinary n-type thermoelectric Pb _{0.96} -yInySe. <i>Nano Energy</i> , 2018 , 50, 785-793	17.1	39
21	Ag doping induced abnormal lattice thermal conductivity in Cu ₂ Se. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13225-13231	7.1	40
20	Sustainable utilization of municipal solid waste incineration fly ash for ceramic bricks with eco-friendly biosafety. <i>Materials Today Sustainability</i> , 2018 , 1-2, 32-38	5	14
19	High Thermoelectric Performance in Sintered Octahedron-Shaped Sn(CdIn) Te Microcrystals. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38944-38952	9.5	27
18	Arrays of Planar Vacancies in Superior Thermoelectric Ge _{1-x} CdxBi _y Te with Band Convergence. <i>Advanced Energy Materials</i> , 2018 , 8, 1801837	21.8	116
17	Dual Ag/ZnO-Decorated Micro-/Nanoporous Sulfonated Polyetheretherketone with Superior Antibacterial Capability and Biocompatibility via Layer-by-Layer Self-Assembly Strategy. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800028	5.5	29
16	A Heterostructure Coupling of Exfoliated Ni-Fe Hydroxide Nanosheet and Defective Graphene as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2017 , 29, 1700017	24	651
15	Enhancing the thermoelectric performance of SnSe _{1-x} Tex nanoplates through band engineering. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10713-10721	13	68
14	n-type Bi-doped PbTe Nanocubes with Enhanced Thermoelectric Performance. <i>Nano Energy</i> , 2017 , 31, 105-112	17.1	84
13	Superconductivity and magnetotransport of single-crystalline NbSe nanoplates grown by chemical vapour deposition. <i>Nanoscale</i> , 2017 , 9, 16591-16595	7.7	12
12	Limit of zT enhancement in rocksalt structured chalcogenides by band convergence. <i>Physical Review B</i> , 2016 , 94,	3.3	44
11	Impacts of Cu deficiency on the thermoelectric properties of Cu _{2-x} Se nanoplates. <i>Acta Materialia</i> , 2016 , 113, 140-146	8.4	58
10	BixSb _{2-x} Te ₃ nanoplates with enhanced thermoelectric performance due to sufficiently decoupled electronic transport properties and strong wide-frequency phonon scatterings. <i>Nano Energy</i> , 2016 , 20, 144-155	17.1	88
9	Enhancing thermoelectric performance of Bi ₂ Te ₃ -based nanostructures through rational structure design. <i>Nanoscale</i> , 2016 , 8, 8681-6	7.7	55

8	Co-doped Sb ₂ Te ₃ paramagnetic nanoplates. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 521-525	7.1	10
7	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
6	n-Type Bi ₂ Te ₃ -xSex Nanoplates with Enhanced Thermoelectric Efficiency Driven by Wide-Frequency Phonon Scatterings and Synergistic Carrier Scatterings. <i>ACS Nano</i> , 2016 , 10, 4719-27	16.7	235
5	High-performance thermoelectric Cu ₂ Se nanoplates through nanostructure engineering. <i>Nano Energy</i> , 2015 , 16, 367-374	17.1	169
4	Enhanced Thermoelectric Performance of Ultrathin Bi ₂ Se ₃ Nanosheets through Thickness Control. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500025	6.4	49
3	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
2	Scalable Growth of High Mobility Dirac Semimetal Cd ₃ As ₂ Microbelts. <i>Nano Letters</i> , 2015 , 15, 5830-4	11.5	34
1	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