Min Hong

List of Publications by Year
in descending order

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Version: 2024-02-01

61 papers	5,620 citations	81839 39 h-index	118793 62 g-index
63 all docs	63 docs citations	63 times ranked	4933 citing authors

#	Article	IF	Citations
1	A Heterostructure Coupling of Exfoliated Niâ€“Fe Hydroxide Nanosheet and Defective Graphene as a Bifunctional Electrocatalyst for Overall Water Splitting. Advanced Materials, 2017, 29, 1700017.	11.1	845
2	Realizing zT of 2.3 in Ge_{1â^'}_x_{â^'}_ySb_xIn_yTe via Reducing the Phaseâ€Transition Temperature and Introducing Resonant Energy Doping. Advanced Materials, 2018, 30, 1705942.	11.1	316
3	n-Type Bi₂Te_{3â€“x}Se_x Nanoplates with Enhanced Thermoelectric Efficiency Driven by Wide-Frequency Phonon Scatterings and Synergistic Carrier Scatterings. ACS Nano, 2016, 10, 4719-4727.	7.3	303
4	High-performance thermoelectric Cu2Se nanoplates through nanostructure engineering. Nano Energy, 2015, 16, 367-374.	8.2	218
5	Enhanced Thermoelectric Performance of Nanostructured Bi₂Te₃ through Significant Phonon Scattering. ACS Applied Materials & Interfaces, 2015, 7, 23694-23699.	4.0	200
6	Strong Phononâ€“Phonon Interactions Securing Extraordinary Thermoelectric Ge_{1â€“x}Sb_xTe with Zn-Alloying-Induced Band Alignment. Journal of the American Chemical Society, 2019, 141, 1742-1748.	6.6	199
7	Thermoelectric GeTe with Diverse Degrees of Freedom Having Secured Superhigh Performance. Advanced Materials, 2019, 31, e1807071.	11.1	197
8	Arrays of Planar Vacancies in Superior Thermoelectric Ge_{1â^'}_x_{â^'}_yCd_xBi_yTe with Band Convergence. Advanced Energy Materials, 2018, 8, 1801837.	10.2	161
9	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. Chemistry of Materials, 2019, 31, 5238-5244.	3.2	153
10	High Thermoelectric Performance in pâ€type Polycrystalline Cdâ€doped SnSe Achieved by a Combination of Cation Vacancies and Localized Lattice Engineering. Advanced Energy Materials, 2019, 9, 1803242.	10.2	150
11	Achieving zT > 2 in pâ€Type AgSbTe_{2â^'}_xSe_x Alloys via Exploring the Extra Light Valence Band and Introducing Dense Stacking Faults. Advanced Energy Materials, 2018, 8, 1702333.	10.2	143
12	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. Joule, 2020, 4, 2030-2043.	11.7	138
13	Establishing the Golden Range of Seebeck Coefficient for Maximizing Thermoelectric Performance. Journal of the American Chemical Society, 2020, 142, 2672-2681.	6.6	137
14	Boosting the thermoelectric performance of p-type heavily Cu-doped polycrystalline SnSe via inducing intensive crystal imperfections and defect phonon scattering. Chemical Science, 2018, 9, 7376-7389.	3.7	125
15	Fundamental and progress of Bi ₂ Te ₃ -based thermoelectric materials. Chinese Physics B, 2018, 27, 048403.	0.7	114
16	n-type Bi-doped PbTe Nanocubes with Enhanced Thermoelectric Performance. Nano Energy, 2017, 31, 105-112.	8.2	113
17	Enhanced thermoelectric properties of nanostructured n-type Bi2Te3 by suppressing Te vacancy through non-equilibrium fast reaction. Chemical Engineering Journal, 2020, 391, 123513.	6.6	108
18	Bi x Sb 2â^'x Te 3 nanoplates with enhanced thermoelectric performance due to sufficiently decoupled electronic transport properties and strong wide-frequency phonon scatterings. Nano Energy, 2016, 20, 144-155.	8.2	107

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19	Bi0.5Sb1.5Te3/PEDOT:PSS-based flexible thermoelectric film and device. Chemical Engineering Journal, 2020, 397, 125360.	6.6	104
20	Computer-aided design of high-efficiency GeTe-based thermoelectric devices. Energy and Environmental Science, 2020, 13, 1856-1864.	15.6	103
21	Achieving high Figure of Merit in p-type polycrystalline Sn0.98Se via self-doping and anisotropy-strengthening. Energy Storage Materials, 2018, 10, 130-138.	9.5	101
22	Enhancing the thermoelectric performance of SnSe_{1â^'x}Te_x nanoplates through band engineering. Journal of Materials Chemistry A, 2017, 5, 10713-10721.	5.2	94
23	Te-Doped Cu₂Se nanoplates with a high average thermoelectric figure of merit. Journal of Materials Chemistry A, 2016, 4, 9213-9219.	5.2	91
24	High Porosity in Nanostructured n-Type Bi₂Te₃ Obtaining Ultralow Lattice Thermal Conductivity. ACS Applied Materials & Interfaces, 2019, 11, 31237-31244.	4.0	91
25	Impacts of Cu deficiency on the thermoelectric properties of Cu2â^'XSe nanoplates. Acta Materialia, 2016, 113, 140-146.	3.8	87
26	Nanoscale pores plus precipitates rendering high-performance thermoelectric SnTe1-xSex with refined band structures. Nano Energy, 2019, 60, 1-7.	8.2	86
27	Crystal symmetry induced structure and bonding manipulation boosting thermoelectric performance of GeTe. Nano Energy, 2020, 73, 104740.	8.2	71
28	Enhancing thermoelectric performance of Bi₂Te₃-based nanostructures through rational structure design. Nanoscale, 2016, 8, 8681-8686.	2.8	70
29	Ag doping induced abnormal lattice thermal conductivity in Cu₂Se. Journal of Materials Chemistry C, 2018, 6, 13225-13231.	2.7	61
30	Enhanced Thermoelectric Performance of Ultrathin Bi₂Se₃ Nanosheets through Thickness Control. Advanced Electronic Materials, 2015, 1, 1500025.	2.6	57
31	High-efficiency thermocells driven by thermo-electrochemical processes. Trends in Chemistry, 2021, 3, 561-574.	4.4	57
32	Computation-guided design of high-performance flexible thermoelectric modules for sunlight-to-electricity conversion. Energy and Environmental Science, 2020, 13, 3480-3488.	15.6	57
33	Dual Ag/ZnOâ€Decorated Microâ€/Nanoporous Sulfonated Polyetheretherketone with Superior Antibacterial Capability and Biocompatibility via Layerâ€byâ€Layer Selfâ€Assembly Strategy. Macromolecular Bioscience, 2018, 18, e1800028.	2.1	55
34	Rational Design of Bi₂Te₃ Polycrystalline Whiskers for Thermoelectric Applications. ACS Applied Materials & Interfaces, 2015, 7, 989-995.	4.0	54
35	Limit of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>z</mml:mi><mml:mi>T</mml:mi></mml:mrow></mml:ma in rocksalt structured chalcogenides by band convergence. Physical Review B, 2016, 94, .	3.1	51
36	Nano-scale dislocations induced by self-vacancy engineering yielding extraordinary n-type thermoelectric Pb0.96-yInySe. Nano Energy, 2018, 50, 785-793.	8.2	51

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37	Realizing Bi-doped Î±-Cu2Se as a promising near-room-temperature thermoelectric material. Chemical Engineering Journal, 2019, 371, 593-599.	6.6	46
38	Self-assembled 3D flower-like hierarchical Ti-doped Cu3SbSe4 microspheres with ultralow thermal conductivity and high zT. Nano Energy, 2018, 49, 221-229.	8.2	45
39	Versatile Vanadium Doping Induces High Thermoelectric Performance in GeTe via Band Alignment and Structural Modulation. Advanced Energy Materials, 2021, 11, 2100544.	10.2	43
40	Scalable Growth of High Mobility Dirac Semimetal Cd₃As₂ Microbelts. Nano Letters, 2015, 15, 5830-5834.	4.5	41
41	Optimizing Electronic Quality Factor toward Highâ€Performance Ge_{1â^'}_x_{â^'}_yTa_xSb_y₁Te Thermoelectrics: The Role of Transition Metal Doping. Advanced Materials, 2021, 33, e2102575.	11.1	41
42	Sustainable utilization of municipal solid waste incineration fly ash for ceramic bricks with eco-friendly biosafety. Materials Today Sustainability, 2018, 1-2, 32-38.	1.9	31
43	High Thermoelectric Performance in Sintered Octahedron-Shaped Sn(CdIn)_xTe_{1+2x} Microcrystals. ACS Applied Materials & Interfaces, 2018, 10, 38944-38952.	4.0	31
44	Two-dimensional flexible thermoelectric devices: Using modeling to deliver optimal capability. Applied Physics Reviews, 2021, 8, .	5.5	29
45	Achieving high thermoelectric performance of Ni/Cu modified Bi0.5Sb1.5Te3 composites by a facile electroless plating. Materials Today Energy, 2018, 9, 383-390.	2.5	22
46	Enhancing thermoelectric performance of (Cu1-xAgx)2Se via CuAgSe secondary phase and porous design. Sustainable Materials and Technologies, 2018, 17, e00076.	1.7	21
47	Thermoelectric performance of p-type (Bi,Sb)2Te3 incorporating amorphous Sb2S3 nanospheres. Chemical Engineering Journal, 2022, 430, 132738.	6.6	21
48	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. ACS Applied Materials & Interfaces, 2020, 12, 36370-36379.	4.0	20
49	Real-time observation of the thermally-induced phase transformation in GeTe and its thermal expansion properties. Acta Materialia, 2019, 165, 327-335.	3.8	18
50	Exploring the underlying mechanisms behind the increased far infrared radiation properties of perovskite-type Ce/Mn co-doped ceramics. Materials Research Bulletin, 2019, 109, 233-239.	2.7	18
51	Superconductivity and magnetotransport of single-crystalline NbSe₂nanoplates grown by chemical vapour deposition. Nanoscale, 2017, 9, 16591-16595.	2.8	17
52	Separable and recyclable meso-carbon@TiO2/carbon fiber composites for visible-light photocatalysis and photoelectrocatalysis. Sustainable Materials and Technologies, 2019, 21, e00105.	1.7	17
53	The effect of rare earth element doping on thermoelectric properties of GeTe. Chemical Engineering Journal, 2022, 446, 137278.	6.6	16
54	Co-doped Sb₂Te₃paramagnetic nanoplates. Journal of Materials Chemistry C, 2016, 4, 521-525.	2.7	13

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55	Atomic Insights into Phase Evolution in Ternary Transitionâ€Metal Dichalcogenides Nanostructures. Small, 2018, 14, e1800780.	5.2	13
56	Rare-Earth Nd Inducing Record-High Thermoelectric Performance of (GeTe) ₈₅ (AgSbTe) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.7	12
57	Synthesis of thermoelectric materials. , 2021, , 73-103.		10
58	Optimal array alignment to deliver high performance in flexible conducting polymerâ€based thermoelectric devices. Journal of Materials Science and Technology, 2022, 124, 252-259.	5.6	9
59	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. Sustainable Materials and Technologies, 2020, 25, e00183.	1.7	6
60	Achieving Highâ€Performance Ge_{0.92}Bi_{0.08}Te Thermoelectrics via LaB₆â€Alloyingâ€Induced Band Engineering and Multiâ€Scale Structure Manipulation. Small, 2022, 18, e2105923.	5.2	5
61	Native Atomic Defects Manipulation for Enhancing the Electronic Transport Properties of Epitaxial SnTe Films. ACS Applied Materials & Interfaces, 2021, 13, 56446-56455.	4.0	2