Jia-Qing He

List of Publications by Year
in descending order

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281 papers	31,414 citations	4370 86 h-index	4628 170 g-index
287 all docs	287 docs citations	287 times ranked	17471 citing authors

#	Article	IF	Citations
1	High-performance bulk thermoelectrics with all-scale hierarchical architectures. Nature, 2012, 489, 414-418.	13.7	3,767
2	All-solid-state dye-sensitized solar cells with high efficiency. Nature, 2012, 485, 486-489.	13.7	1,608
3	Ultrahigh power factor and thermoelectric performance in hole-doped single-crystal SnSe. Science, 2016, 351, 141-144.	6.0	1,594
4	Strained endotaxial nanostructures with high thermoelectric figure of merit. Nature Chemistry, 2011, 3, 160-166.	6.6	911
5	3D charge and 2D phonon transports leading to high out-of-plane ZT in n-type SnSe crystals. Science, 2018, 360, 778-783.	6.0	859
6	All-scale hierarchical thermoelectrics: MgTe in PbTe facilitates valence band convergence and suppresses bipolar thermal transport for high performance. Energy and Environmental Science, 2013, 6, 3346.	15.6	646
7	High-entropy-stabilized chalcogenides with high thermoelectric performance. Science, 2021, 371, 830-834.	6.0	546
8	BiCuSeO oxyselenides: new promising thermoelectric materials. Energy and Environmental Science, 2014, 7, 2900-2924.	15.6	544
9	Broad temperature plateau for thermoelectric figure of merit ZT>2 in phase-separated PbTe0.7S0.3. Nature Communications, 2014, 5, 4515.	5.8	461
10	High Performance Thermoelectrics from Earth-Abundant Materials: Enhanced Figure of Merit in PbS by Second Phase Nanostructures. Journal of the American Chemical Society, 2011, 133, 20476-20487.	6.6	433
11	High performance bulk thermoelectrics via a panoscopic approach. Materials Today, 2013, 16, 166-176.	8.3	421
12	High thermoelectric performance in low-cost SnS _{0.91} Se _{0.09} crystals. Science, 2019, 365, 1418-1424.	6.0	395
13	Tuning Multiscale Microstructures to Enhance Thermoelectric Performance of nâ€Type Bismuthâ€Telluridâ€Based Solid Solutions. Advanced Energy Materials, 2015, 5, 1500411.	10.2	379
14	Unit-cell scale mapping of ferroelectricity and tetragonality in epitaxial ultrathin ferroelectric films. Nature Materials, 2007, 6, 64-69.	13.3	368
15	High thermoelectric performance of oxyselenides: intrinsically low thermal conductivity of Ca-doped BiCuSeO. NPG Asia Materials, 2013, 5, e47-e47.	3.8	349
16	A high thermoelectric figure of merit ZT > 1 in Ba heavily doped BiCuSeO oxyselenides. Energy and Environmental Science, 2012, 5, 8543.	15.6	333
17	Texturation boosts the thermoelectric performance of BiCuSeO oxyselenides. Energy and Environmental Science, 2013, 6, 2916.	15.6	326
18	High Performance Na-doped PbTeâ€“PbS Thermoelectric Materials: Electronic Density of States Modification and Shape-Controlled Nanostructures. Journal of the American Chemical Society, 2011, 133, 16588-16597.	6.6	322

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19	Origin of the High Performance in GeTe-Based Thermoelectric Materials upon Bi₂Te₃ Doping. Journal of the American Chemical Society, 2014, 136, 11412-11419.	6.6	319
20	High Thermoelectric Performance Realized in a BiCuSeO System by Improving Carrier Mobility through 3D Modulation Doping. Journal of the American Chemical Society, 2014, 136, 13902-13908.	6.6	317
21	Raising the Thermoelectric Performance of p-Type PbS with Endotaxial Nanostructuring and Valence-Band Offset Engineering Using CdS and ZnS. Journal of the American Chemical Society, 2012, 134, 16327-16336.	6.6	308
22	Microstructureâ€Lattice Thermal Conductivity Correlation in Nanostructured PbTe_{0.7}S_{0.3} Thermoelectric Materials. Advanced Functional Materials, 2010, 20, 764-772.	7.8	307
23	Enhanced atomic ordering leads to high thermoelectric performance in AgSbTe ₂. Science, 2021, 371, 722-727.	6.0	306
24	Ultrahigh thermoelectric performance in Cu₂Se-based hybrid materials with highly dispersed molecular CNTs. Energy and Environmental Science, 2017, 10, 1928-1935.	15.6	298
25	High performance n-type Ag2Se film on nylon membrane for flexible thermoelectric power generator. Nature Communications, 2019, 10, 841.	5.8	291
26	Origin of low thermal conductivity in SnSe. Physical Review B, 2016, 94, .	1.1	287
27	Nanostructures Boost the Thermoelectric Performance of PbS. Journal of the American Chemical Society, 2011, 133, 3460-3470.	6.6	282
28	Power generation and thermoelectric cooling enabled by momentum and energy multiband alignments. Science, 2021, 373, 556-561.	6.0	270
29	Enhanced Thermoelectric Properties in the Counter-Doped SnTe System with Strained Endotaxial SrTe. Journal of the American Chemical Society, 2016, 138, 2366-2373.	6.6	269
30	Synergistically optimized electrical and thermal transport properties of SnTe via alloying high-solubility MnTe. Energy and Environmental Science, 2015, 8, 3298-3312.	15.6	268
31	Low-cost, abundant binary sulfides as promising thermoelectric materials. Materials Today, 2016, 19, 227-239.	8.3	257
32	Realizing record high performance in n-type Bi₂Te₃-based thermoelectric materials. Energy and Environmental Science, 2020, 13, 2106-2114.	15.6	249
33	High-Performance Solution-Processed Amorphous Zincâ^'Indiumâ^'Tin Oxide Thin-Film Transistors. Journal of the American Chemical Society, 2010, 132, 10352-10364.	6.6	235
34	Thermoelectrics with Earth Abundant Elements: High Performance p-type PbS Nanostructured with SrS and CaS. Journal of the American Chemical Society, 2012, 134, 7902-7912.	6.6	233
35	High figure-of-merit and power generation in high-entropy GeTe-based thermoelectrics. Science, 2022, 377, 208-213.	6.0	233
36	Remarkable Roles of Cu To Synergistically Optimize Phonon and Carrier Transport in n-Type PbTe-Cu₂Te. Journal of the American Chemical Society, 2017, 139, 18732-18738.	6.6	230

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37	On the Origin of Increased Phonon Scattering in Nanostructured PbTe Based Thermoelectric Materials. Journal of the American Chemical Society, 2010, 132, 8669-8675.	6.6	211
38	Extraordinary Thermoelectric Performance Realized in nâ€Type PbTe through Multiphase Nanostructure Engineering. Advanced Materials, 2017, 29, 1703148.	11.1	209
39	Structure of the CED-4â€“CED-9 complex provides insights into programmed cell death in Caenorhabditis elegans. Nature, 2005, 437, 831-837.	13.7	207
40	Understanding of the Extremely Low Thermal Conductivity in Highâ€Performance Polycrystalline SnSe through Potassium Doping. Advanced Functional Materials, 2016, 26, 6836-6845.	7.8	201
41	Realizing high performance n-type PbTe by synergistically optimizing effective mass and carrier mobility and suppressing bipolar thermal conductivity. Energy and Environmental Science, 2018, 11, 2486-2495.	15.6	200
42	Grain Boundary Engineering for Achieving High Thermoelectric Performance in nâ€Type Skutterudites. Advanced Energy Materials, 2017, 7, 1602582.	10.2	194
43	Large enhancement of thermoelectric properties in n-type PbTe via dual-site point defects. Energy and Environmental Science, 2017, 10, 2030-2040.	15.6	194
44	Extraordinary thermoelectric performance in n-type manganese doped Mg3Sb2 Zintl: High band degeneracy, tuned carrier scattering mechanism and hierarchical microstructure. Nano Energy, 2018, 52, 246-255.	8.2	188
45	Superior thermoelectric performance in PbTeâ€“PbS pseudo-binary: extremely low thermal conductivity and modulated carrier concentration. Energy and Environmental Science, 2015, 8, 2056-2068.	15.6	185
46	Potential-Dependent Phase Transition and Mo-Enriched Surface Reconstruction of Î³-CoOOH in a Heterostructured Co-Mo₂C Precatalyst Enable Water Oxidation. ACS Catalysis, 2020, 10, 4411-4419.	5.5	174
47	Exploring Resonance Levels and Nanostructuring in the PbTeâ€’CdTe System and Enhancement of the Thermoelectric Figure of Merit. Journal of the American Chemical Society, 2010, 132, 5227-5235.	6.6	171
48	Ultrahigh power factor and flexible silver selenide-based composite film for thermoelectric devices. Energy and Environmental Science, 2020, 13, 1240-1249.	15.6	165
49	Thermoelectrics from Abundant Chemical Elements: High-Performance Nanostructured PbSeâ€“PbS. Journal of the American Chemical Society, 2011, 133, 10920-10927.	6.6	164
50	Simultaneous optimization of electrical and thermal transport properties of Bi0.5Sb1.5Te3 thermoelectric alloy by twin boundary engineering. Nano Energy, 2017, 37, 203-213.	8.2	164
51	High thermoelectric figure of merit in nanostructured p-type PbTeâ€“MTe (M = Ca, Ba). Energy and Environmental Science, 2011, 4, 4675.	15.6	162
52	High-entropy enhanced capacitive energy storage. Nature Materials, 2022, 21, 1074-1080.	13.3	161
53	Integrating Band Structure Engineering with Allâ€Scale Hierarchical Structuring for High Thermoelectric Performance in PbTe System. Advanced Energy Materials, 2017, 7, 1601450.	10.2	157
54	Good Performance and Flexible PEDOT:PSS/Cu₂Se Nanowire Thermoelectric Composite Films. ACS Applied Materials & Interfaces, 2019, 11, 12819-12829.	4.0	153

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55	Controlled heterogeneous water distribution and evaporation towards enhanced photothermal water-electricity-hydrogen production. Nano Energy, 2020, 77, 105102.	8.2	148
56	Enhancing the Figure of Merit of Heavyâ€Band Thermoelectric Materials Through Hierarchical Phonon Scattering. Advanced Science, 2016, 3, 1600035.	5.6	147
57	Strong enhancement of phonon scattering through nanoscale grains in lead sulfide thermoelectrics. NPG Asia Materials, 2014, 6, e108-e108.	3.8	140
58	Functional Monolithic Polymeric Organic Framework Aerogel as Reducing and Hosting Media for Ag nanoparticles and Application in Capturing of Iodine Vapors. Chemistry of Materials, 2012, 24, 1937-1943.	3.2	137
59	Liquid-like thermal conduction in intercalated layered crystalline solids. Nature Materials, 2018, 17, 226-230.	13.3	136
60	Strong Phonon Scattering by Layer Structured PbSnS₂ in PbTe Based Thermoelectric Materials. Advanced Materials, 2012, 24, 4440-4444.	11.1	130
61	Multiple Converged Conduction Bands in K₂Bi₈Se₁₃: A Promising Thermoelectric Material with Extremely Low Thermal Conductivity. Journal of the American Chemical Society, 2016, 138, 16364-16371.	6.6	130
62	Role of Sodium Doping in Lead Chalcogenide Thermoelectrics. Journal of the American Chemical Society, 2013, 135, 4624-4627.	6.6	128
63	Enhancement of Thermoelectric Figure of Merit by the Insertion of MgTe Nanostructures in pâ€type PbTe Doped with Na₂Te. Advanced Energy Materials, 2012, 2, 1117-1123.	10.2	123
64	Enhanced mid-temperature thermoelectric performance of textured SnSe polycrystals made of solvothermally synthesized powders. Journal of Materials Chemistry C, 2016, 4, 2047-2055.	2.7	122
65	Synergistic modulation of mobility and thermal conductivity in (Bi,Sb)₂Te₃ towards high thermoelectric performance. Energy and Environmental Science, 2019, 12, 624-630.	15.6	120
66	Attaining high mid-temperature performance in (Bi,Sb)2Te3 thermoelectric materials via synergistic optimization. NPG Asia Materials, 2016, 8, e302-e302.	3.8	119
67	Enhanced thermoelectric performance of PbTe bulk materials with figure of merit zT >2 by multi-functional alloying. Journal of Materiomics, 2016, 2, 141-149.	2.8	118
68	Simultaneously enhancing the power factor and reducing the thermal conductivity of SnTe via introducing its analogues. Energy and Environmental Science, 2017, 10, 2420-2431.	15.6	116
69	Enhanced thermoelectric properties of p-type nanostructured PbTeâ€“MTe (M = Cd, Hg) materials. Energy and Environmental Science, 2013, 6, 1529.	15.6	115
70	Long-Range Ordering of Oxygen-Vacancy Planes in Î±-Fe₂O₃ Nanowires and Nanobelts. Chemistry of Materials, 2008, 20, 3224-3228.	3.2	112
71	Phonon Scattering and Thermal Conductivity in pâ€Type Nanostructured PbTeâ€BaTe Bulk Thermoelectric Materials. Advanced Functional Materials, 2012, 22, 5175-5184.	7.8	112
72	Highâ€Performance Thermoelectricity in Nanostructured Earthâ€Abundant Copper Sulfides Bulk Materials. Advanced Energy Materials, 2016, 6, 1600607.	10.2	111

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73	In Situ Nanostructure Generation and Evolution within a Bulk Thermoelectric Material to Reduce Lattice Thermal Conductivity. Nano Letters, 2010, 10, 2825-2831.	4.5	108
74	Raising thermoelectric performance of n-type SnSe via Br doping and Pb alloying. RSC Advances, 2016, 6, 98216-98220.	1.7	107
75	Highly Enhanced Thermoelectric Properties of Bi/Bi₂S₃ Nanocomposites. ACS Applied Materials & Interfaces, 2017, 9, 4828-4834.	4.0	107
76	Scaling of structure and electrical properties in ultrathin epitaxial ferroelectric heterostructures. Journal of Applied Physics, 2006, 100, 051609.	1.1	106
77	Entropy engineering promotes thermoelectric performance in p-type chalcogenides. Nature Communications, 2021, 12, 3234.	5.8	105
78	Direct observation of vast off-stoichiometric defects in single crystalline SnSe. Nano Energy, 2017, 35, 321-330.	8.2	101
79	High Thermoelectric Performance Achieved in GeTeâ€“Bi₂Te₃ Pseudoâ€Binary via Van der Waals Gapâ€Induced Hierarchical Ferroelectric Domain Structure. Advanced Functional Materials, 2019, 29, 1806613.	7.8	101
80	Realizing high-efficiency power generation in low-cost PbS-based thermoelectric materials. Energy and Environmental Science, 2020, 13, 579-591.	15.6	101
81	Morphology Control of Nanostructures: Na-Doped PbTeâ€“PbS System. Nano Letters, 2012, 12, 5979-5984.	4.5	100
82	Boosting the Thermoelectric Performance of Pseudoâ€Layered Sb₂Te₃(GeTe)_n via Vacancy Engineering. Advanced Science, 2018, 5, 1801514.	5.6	95
83	Surface nitridation of nickel-cobalt alloy nanocactoids raises the performance of water oxidation and splitting. Applied Catalysis B: Environmental, 2020, 270, 118889.	10.8	95
84	Seeing Is Believing: Weak Phonon Scattering from Nanostructures in Alkali Metal-Doped Lead Telluride. Nano Letters, 2012, 12, 343-347.	4.5	94
85	Polymer/carbon nanotube composite materials for flexible thermoelectric power generator. Composites Science and Technology, 2017, 153, 71-83.	3.8	92
86	Electronic and Magnetic Properties of Ultrathin Au/Pt Nanowires. Nano Letters, 2009, 9, 3177-3184.	4.5	91
87	Significantly Enhanced Thermoelectric Performance in nâ€type Heterogeneous BiAgSeS Composites. Advanced Functional Materials, 2014, 24, 7763-7771.	7.8	91
88	Remarkable electron and phonon band structures lead to a high thermoelectric performance ZT > 1 in earth-abundant and eco-friendly SnS crystals. Journal of Materials Chemistry A, 2018, 6, 10048-10056.	5.2	90
89	Realizing Highâ€Ranged Outâ€ofâ€Plane ZTs in Nâ€Type SnSe Crystals through Promoting Continuous Phase Transition. Advanced Energy Materials, 2019, 9, 1901334.	10.2	83
90	Advanced electron microscopy for thermoelectric materials. Nano Energy, 2015, 13, 626-650.	8.2	80

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91	The Thermoelectric Properties of SnSe Continue to Surprise: Extraordinary Electron and Phonon Transport. Chemistry of Materials, 2018, 30, 7355-7367.	3.2	79
92	Enhanced thermoelectric properties of bismuth telluride bulk achieved by telluride-spilling during the spark plasma sintering process. Scripta Materialia, 2018, 143, 90-93.	2.6	77
93	Preparation and Characterization of Te/Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate)/Cu₇Te₄ Ternary Composite Films for Flexible Thermoelectric Power Generator. ACS Applied Materials & Interfaces, 2018, 10, 42310-42319.	4.0	74
94	Multipoint Defect Synergy Realizing the Excellent Thermoelectric Performance of nâ€Type Polycrystalline SnSe via Re Doping. Advanced Functional Materials, 2019, 29, 1902893.	7.8	73
95	High thermoelectric performance in n-type BiAgSeS due to intrinsically low thermal conductivity. Energy and Environmental Science, 2013, 6, 1750.	15.6	68
96	Optical Functional Materials Inspired by Biology. Advanced Optical Materials, 2016, 4, 195-224.	3.6	67
97	Energetics of Nanoparticle Exsolution from Perovskite Oxides. Journal of Physical Chemistry Letters, 2018, 9, 3772-3778.	2.1	65
98	Selective Surfaces: Quaternary Co(Ni)MoS-Based Chalcogels with Divalent (Pb²⁺,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46 Separation. Chemistry of Materials, 2012, 24, 3380-3392.	3.2	63
99	Enhancing Localized Evaporation through Separated Light Absorbing Centers and Scattering Centers. Scientific Reports, 2015, 5, 17276.	1.6	63
100	New insight into InSb-based thermoelectric materials: from a divorced eutectic design to a remarkably high thermoelectric performance. Journal of Materials Chemistry A, 2017, 5, 5163-5170.	5.2	63
101	Synergistically optimizing thermoelectric transport properties of n-type PbTe via Se and Sn co-alloying. Journal of Alloys and Compounds, 2017, 724, 208-221.	2.8	59
102	A hierarchical carbon nitride tube with oxygen doping and carbon defects promotes solar-to-hydrogen conversion. Journal of Materials Chemistry A, 2020, 8, 3160-3167.	5.2	59
103	High Power Factor Ag/Ag₂Se Composite Films for Flexible Thermoelectric Generators. ACS Applied Materials & Interfaces, 2021, 13, 14327-14333.	4.0	58
104	Strategy to optimize the overall thermoelectric properties of SnTe via compositing with its property-counter CuInTe2. Acta Materialia, 2017, 125, 542-549.	3.8	56
105	High thermoelectric figure of merit and improved mechanical properties in melt quenched PbTeâ€“Ge and PbTeâ€“Ge1â^'xSix eutectic and hypereutectic composites. Journal of Applied Physics, 2009, 105, .	1.1	55
106	Synergizing aliovalent doping and interface in heterostructured NiV nitride@oxyhydroxide core-shell nanosheet arrays enables efficient oxygen evolution. Nano Energy, 2021, 85, 105961.	8.2	55
107	PbTeâ€“PbSnS2 thermoelectric composites: low lattice thermal conductivity from large microstructures. Energy and Environmental Science, 2012, 5, 8716.	15.6	54
108	2D hetero-nanosheets to enable ultralow thermal conductivity by all scale phonon scattering for highly thermoelectric performance. Nano Energy, 2016, 30, 780-789.	8.2	54

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109	Understanding Nanostructuring Processes in Thermoelectrics and Their Effects on Lattice Thermal Conductivity. Advanced Materials, 2016, 28, 2737-2743.	11.1	54
110	Thermoelectric Properties and Nanostructuring in the p-Type Materials NaPb_{18â^'x}Sn_xMTe₂₀ (M = Sb, Bi). Chemistry of Materials, 2009, 21, 1683-1694.	3.2	53
111	Ion-Exchangeable Cobalt Polysulfide Chalcogel. Journal of the American Chemical Society, 2011, 133, 1200-1202.	6.6	53
112	Enhanced thermoelectric properties of SnSe polycrystals via texture control. Physical Chemistry Chemical Physics, 2016, 18, 31821-31827.	1.3	53
113	Influence of defects on the thermoelectricity in SnSe: A comprehensive theoretical study. Physical Review B, 2018, 97, .	1.1	53
114	Constructing van der Waals gaps in cubic-structured SnTe-based thermoelectric materials. Energy and Environmental Science, 2020, 13, 5135-5142.	15.6	53
115	Hierarchical Self-Assembly of Nanowires on the Surface by Metallo-Supramolecular Truncated Cuboctahedra. Journal of the American Chemical Society, 2021, 143, 5826-5835.	6.6	53
116	Realizing high thermoelectric performance in non-nanostructured n-type PbTe. Energy and Environmental Science, 2022, 15, 1920-1929.	15.6	53
117	First-Principles Study of Anharmonic Lattice Dynamics in Low Thermal Conductivity <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>AgCrSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:m : Evidence for a Large Resonant Four-Phonon Scattering. Physical Review Letters, 2020, 125, 245901.	2.9	52
118	Allâ€Soft and Stretchable Thermogalvanic Gel Fabric for Antideformity Body Heat Harvesting Wearable. Advanced Energy Materials, 2021, 11, 2102219.	10.2	52
119	Microstructure and Thermoelectric Properties of Mechanically Robust PbTe-Si Eutectic Composites. Chemistry of Materials, 2010, 22, 869-875.	3.2	50
120	Effective atomic interface engineering in Bi2Te2.7Se0.3 thermoelectric material by atomic-layer-deposition approach. Nano Energy, 2018, 49, 257-266.	8.2	49
121	Eutectoid nano-precipitates inducing remarkably enhanced thermoelectric performance in (Sn_{1â^'x}Cd_xTe)_{1â^'y}(Cu₂Te)_y. Journal of Materials Chemistry A, 2020, 8, 2798-2808.	5.2	49
122	Enhanced-Performance PEDOT:PSS/Cu₂Se-Based Composite Films for Wearable Thermoelectric Power Generators. ACS Applied Materials & Interfaces, 2021, 13, 631-638.	4.0	49
123	Exceptionally High Power Factor Ag₂Se/Se/Polypyrrole Composite Films for Flexible Thermoelectric Generators. Advanced Functional Materials, 2022, 32, 2106902.	7.8	49
124	Growth dynamics and strain relaxation mechanisms inBaTiO3pulsed laser deposited onSrRuO3â•SrTiO3. Physical Review B, 2006, 73, .	1.1	48
125	Revisiting AgCrSe₂as a promising thermoelectric material. Physical Chemistry Chemical Physics, 2016, 18, 23872-23878.	1.3	48
126	Anomalous Electronic Transport in Dual-Nanostructured Lead Telluride. Journal of the American Chemical Society, 2011, 133, 8786-8789.	6.6	47

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127	Unexpected Large Hole Effective Masses in SnSe Revealed by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2017, 119, 116401.	2.9	47
128	High Performance and Flexible Polyvinylpyrrolidone/Ag/Ag₂Te Ternary Composite Film for Thermoelectric Power Generator. ACS Applied Materials & Interfaces, 2019, 11, 33254-33262.	4.0	47
129	Extraordinary Selectivity of CoMo₃S₁₃ Chalcogel for C₂H₆ and CO₂ Adsorption. Advanced Materials, 2011, 23, 4857-4860.	11.1	46
130	Point Defect Engineering: Coâ€Doping Synergy Realizing Superior Performance in nâ€Type Bi₂Te₃ Thermoelectric Materials. Small, 2021, 17, e2101328.	5.2	45
131	Metal Acetylacetonates as General Precursors for the Synthesis of Early Transition Metal Oxide Nanomaterials. Journal of Nanomaterials, 2007, 2007, 1-7.	1.5	44
132	Enhancing thermoelectric performance of SnTe via nanostructuring particle size. Journal of Alloys and Compounds, 2017, 709, 575-580.	2.8	44
133	Achieving an excellent thermoelectric performance in nanostructured copper sulfide bulk via a fast doping strategy. Materials Today Physics, 2019, 8, 71-77.	2.9	44
134	Hydrothermal degradation of cubic zirconia. Acta Materialia, 2003, 51, 5123-5130.	3.8	43
135	Strongly Nonlinear Optical Chalcogenide Thin Films of APSe₆ (A=K, Rb) from Spinâ€Coating. Angewandte Chemie - International Edition, 2011, 50, 10867-10870.	7.2	43
136	Extremely Low Thermal Conductivity in Thermoelectric Ge_{0.55}Pb_{0.45}Te Solid Solutions via Se Substitution. Chemistry of Materials, 2016, 28, 6367-6373.	3.2	42
137	Magnetotransport signatures of Weyl physics and discrete scale invariance in the elemental semiconductor tellurium. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11337-11343.	3.3	42
138	Investigation into the extremely low thermal conductivity in Ba heavily doped BiCuSeO. Nano Energy, 2016, 27, 167-174.	8.2	40
139	Substrateless Welding of Self-Assembled Silver Nanowires at Air/Water Interface. ACS Applied Materials & Interfaces, 2016, 8, 20483-20490.	4.0	39
140	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu₂SnSe₃. Advanced Energy Materials, 2021, 11, 2100661.	10.2	39
141	Sharp ferroelectric phase transition in strained single-crystalline SrRuO3/Ba0.7Sr0.3TiO3/SrRuO3 capacitors. Applied Physics Letters, 2003, 83, 5011-5013.	1.5	38
142	Role of Self-Organization, Nanostructuring, and Lattice Strain on Phonon Transport in NaPb_{18-x}Sn_xBiTe₂₀ Thermoelectric Materials. Journal of the American Chemical Society, 2009, 131, 17828-17835.	6.6	38
143	Assessment of similarity relations using helium for prediction of hydrogen dispersion and safety in an enclosure. International Journal of Hydrogen Energy, 2016, 41, 15388-15398.	3.8	38
144	The Role of Electronâ€“Phonon Interaction in Heavily Doped Fineâ€Grained Bulk Silicons as Thermoelectric Materials. Advanced Electronic Materials, 2016, 2, 1600171.	2.6	38

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145	Dynamic piezo-thermoelectric generator for simultaneously harvesting mechanical and thermal energies. Nano Energy, 2020, 69, 104397.	8.2	38
146	Enhancing thermoelectric performance of SnTe via stepwisely optimizing electrical and thermal transport properties. Journal of Alloys and Compounds, 2019, 773, 571-584.	2.8	37
147	Realizing Improved Thermoelectric Performance in BiI₃-Doped Sb₂Te₃(GeTe)₁₇ via Introducing Dual Vacancy Defects. Chemistry of Materials, 2020, 32, 1693-1701.	3.2	36
148	Atomic origins of the strong metalâ€“support interaction in silica supported catalysts. Chemical Science, 2021, 12, 12651-12660.	3.7	36
149	Carbon-Involved Near-Surface Evolution of Cobalt Nanocatalysts: An in Situ Study. CCS Chemistry, 2021, 3, 154-167.	4.6	36
150	Comparison of precursors for pulsed metalâ€“organic chemical vapor deposition of HfO2 high-K dielectric thin films. Thin Solid Films, 2005, 478, 206-217.	0.8	35
151	Colloidal syntheses of zero-dimensional Cs₄SnX₆(X = Br, I) nanocrystals with high emission efficiencies. Chemical Communications, 2020, 56, 387-390.	2.2	35
152	Realizing high thermoelectric performance of polycrystalline SnS through optimizing carrier concentration and modifying band structure. Journal of Alloys and Compounds, 2019, 789, 485-492.	2.8	34
153	High Performance Polymer Thermoelectric Composite Achieved by Carbon-Coated Carbon Nanotubes Network. ACS Applied Energy Materials, 2019, 2, 2427-2434.	2.5	34
154	Highly enhanced thermoelectric properties of nanostructured Bi₂S₃ bulk materials via carrier modification and multi-scale phonon scattering. Inorganic Chemistry Frontiers, 2019, 6, 1374-1381.	3.0	33
155	Investigations on distinct thermoelectric transport behaviors of Cu in n-type PbS. Journal of Alloys and Compounds, 2019, 781, 820-830.	2.8	32
156	Direct observation of a fully strained dead layer at Ba0.7Sr0.3TiO3âˆ•SrRuO3 interface. Applied Physics Letters, 2005, 87, 062901.	1.5	31
157	Integrating plasmonic nanostructures with natural photonic architectures in Pd-modified Morpho butterfly wings for sensitive hydrogen gas sensing. RSC Advances, 2018, 8, 32395-32400.	1.7	31
158	Solâˆ’Gel-Derived Epitaxial Nanocomposite Thin Films with Large Sharp Magnetoelectric Effect. ACS Nano, 2010, 4, 6836-6842.	7.3	30
159	Dopant Distributions in PbTe-Based Thermoelectric Materials. Journal of Electronic Materials, 2012, 41, 1583-1588.	1.0	30
160	High-performance low-temperature magnetic refrigerants made of gadolinium-hydroxy-chloride. Journal of Materials Chemistry C, 2016, 4, 6473-6477.	2.7	30
161	Coherent Sb/CuTe Core/Shell Nanostructure with Large Strain Contrast Boosting the Thermoelectric Performance of nâ€Type PbTe. Advanced Functional Materials, 2021, 31, 2007340.	7.8	30
162	Interfacial reaction in the growth of epitaxial SrTiO3 thin films on (001) Si substrates. Journal of Applied Physics, 2005, 97, 104921.	1.1	29

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