Jia-Qing He

List of Publications by Citations

274 papers	23,172 citations	77 h-index	149 g-index
287 ext. papers	27,313 ext. citations	12.8 avg, IF	7.08 L-index

#	Paper	IF	Citations
274	High-performance bulk thermoelectrics with all-scale hierarchical architectures. *Nature*, **2012**, 489, 414-8	50.4	3069
273	All-solid-state dye-sensitized solar cells with high efficiency. *Nature*, **2012**, 485, 486-9	50.4	1392
272	Ultrahigh power factor and thermoelectric performance in hole-doped single-crystal SnSe. *Science*, **2016**, 351, 141-4	33.3	1237
271	Strained endotaxial nanostructures with high thermoelectric figure of merit. *Nature Chemistry*, **2011**, 3, 160-6	17.6	794
270	3D charge and 2D phonon transports leading to high out-of-plane in n-type SnSe crystals. *Science*, **2018**, 360, 778-783	33.3	569
269	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	35.4	532
268	BiCuSeO oxyselenides: new promising thermoelectric materials. *Energy and Environmental Science*, **2014**, 7, 2900-2924	35.4	416
267	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, 20476-87	16.4	377
266	Broad temperature plateau for thermoelectric figure of merit ZT>2 in phase-separated PbTe0.7S0.3. *Nature Communications*, **2014**, 5, 4515	17.4	373
265	High performance bulk thermoelectrics via a panoscopic approach. *Materials Today*, **2013**, 16, 166-176	21.8	344
264	Unit-cell scale mapping of ferroelectricity and tetragonality in epitaxial ultrathin ferroelectric films. *Nature Materials*, **2007**, 6, 64-9	27	322
263	A high thermoelectric figure of merit ZT > 1 in Ba heavily doped BiCuSeO oxyselenides. *Energy and Environmental Science*, **2012**, 5, 8543	35.4	292
262	High performance Na-doped PbTe-PbS thermoelectric materials: electronic density of states modification and shape-controlled nanostructures. *Journal of the American Chemical Society*, **2011**, 133, 16588-97	16.4	289
261	Tuning Multiscale Microstructures to Enhance Thermoelectric Performance of n-Type Bismuth-Telluride-Based Solid Solutions. *Advanced Energy Materials*, **2015**, 5, 1500411	21.8	287
260	High thermoelectric performance of oxyselenides: intrinsically low thermal conductivity of Ca-doped BiCuSeO. *NPG Asia Materials*, **2013**, 5, e47-e47	10.3	286
259	Texturation boosts the thermoelectric performance of BiCuSeO oxyselenides. *Energy and Environmental Science*, **2013**, 6, 2916	35.4	273
258	Microstructure-Lattice Thermal Conductivity Correlation in Nanostructured PbTe0.7S0.3 Thermoelectric Materials. *Advanced Functional Materials*, **2010**, 20, 764-772	15.6	268

257	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, 16327-36	16.4	264
256	Origin of the high performance in GeTe-based thermoelectric materials upon Bi2Te3 doping. *Journal of the American Chemical Society*, **2014**, 136, 11412-9	16.4	259
255	Nanostructures boost the thermoelectric performance of PbS. *Journal of the American Chemical Society*, **2011**, 133, 3460-70	16.4	254
254	High thermoelectric performance realized in a BiCuSeO system by improving carrier mobility through 3D modulation doping. *Journal of the American Chemical Society*, **2014**, 136, 13902-8	16.4	253
253	High thermoelectric performance in low-cost SnSSe crystals. *Science*, **2019**, 365, 1418-1424	33.3	233
252	Ultrahigh thermoelectric performance in Cu2Se-based hybrid materials with highly dispersed molecular CNTs. *Energy and Environmental Science*, **2017**, 10, 1928-1935	35.4	215
251	Enhanced Thermoelectric Properties in the Counter-Doped SnTe System with Strained Endotaxial SrTe. *Journal of the American Chemical Society*, **2016**, 138, 2366-73	16.4	213
250	High-performance solution-processed amorphous zinc-indium-tin oxide thin-film transistors. *Journal of the American Chemical Society*, **2010**, 132, 10352-64	16.4	210
249	Synergistically optimized electrical and thermal transport properties of SnTe via alloying high-solubility MnTe. *Energy and Environmental Science*, **2015**, 8, 3298-3312	35.4	209
248	Thermoelectrics with earth abundant elements: high performance p-type PbS nanostructured with SrS and CaS. *Journal of the American Chemical Society*, **2012**, 134, 7902-12	16.4	197
247	Low-cost, abundant binary sulfides as promising thermoelectric materials. *Materials Today*, **2016**, 19, 227-239	21.8	196
246	Structure of the CED-4-CED-9 complex provides insights into programmed cell death in Caenorhabditis elegans. *Nature*, **2005**, 437, 831-7	50.4	185
245	Remarkable Roles of Cu To Synergistically Optimize Phonon and Carrier Transport in n-Type PbTe-CuTe. *Journal of the American Chemical Society*, **2017**, 139, 18732-18738	16.4	179
244	On the origin of increased phonon scattering in nanostructured PbTe based thermoelectric materials. *Journal of the American Chemical Society*, **2010**, 132, 8669-75	16.4	177
243	Origin of low thermal conductivity in SnSe. *Physical Review B*, **2016**, 94,	3.3	176
242	High-entropy-stabilized chalcogenides with high thermoelectric performance. *Science*, **2021**, 371, 830-834	33.3	167
241	Understanding of the Extremely Low Thermal Conductivity in High-Performance Polycrystalline SnSe through Potassium Doping. *Advanced Functional Materials*, **2016**, 26, 6836-6845	15.6	166
240	High performance n-type AgSe film on nylon membrane for flexible thermoelectric power generator. *Nature Communications*, **2019**, 10, 841	17.4	165

239	Superior thermoelectric performance in PbTe-PbS pseudo-binary: extremely low thermal conductivity and modulated carrier concentration. *Energy and Environmental Science*, **2015**, 8, 2056-2068	35.4	157
238	High thermoelectric figure of merit in nanostructured p-type PbTe-MTe (M = Ca, Ba). *Energy and Environmental Science*, **2011**, 4, 4675	35.4	153
237	Exploring resonance levels and nanostructuring in the PbTe-CdTe system and enhancement of the thermoelectric figure of merit. *Journal of the American Chemical Society*, **2010**, 132, 5227-35	16.4	153
236	Extraordinary Thermoelectric Performance Realized in n-Type PbTe through Multiphase Nanostructure Engineering. *Advanced Materials*, **2017**, 29, 1703148	24	150
235	Grain Boundary Engineering for Achieving High Thermoelectric Performance in n-Type Skutterudites. *Advanced Energy Materials*, **2017**, 7, 1602582	21.8	146
234	Thermoelectrics from abundant chemical elements: high-performance nanostructured PbSe-PbS. *Journal of the American Chemical Society*, **2011**, 133, 10920-7	16.4	146
233	Large enhancement of thermoelectric properties in n-type PbTe via dual-site point defects. *Energy and Environmental Science*, **2017**, 10, 2030-2040	35.4	131
232	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	35.4	129
231	Integrating Band Structure Engineering with All-Scale Hierarchical Structuring for High Thermoelectric Performance in PbTe System. *Advanced Energy Materials*, **2017**, 7, 1601450	21.8	125
230	Strong enhancement of phonon scattering through nanoscale grains in lead sulfide thermoelectrics. *NPG Asia Materials*, **2014**, 6, e108-e108	10.3	119
229	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	17.1	117
228	Simultaneous optimization of electrical and thermal transport properties of Bi 0.5 Sb 1.5 Te 3 thermoelectric alloy by twin boundary engineering. *Nano Energy*, **2017**, 37, 203-213	17.1	115
227	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	9.6	112
226	Strong phonon scattering by layer structured PbSnS(2) in PbTe based thermoelectric materials. *Advanced Materials*, **2012**, 24, 4440-4	24	111
225	Role of sodium doping in lead chalcogenide thermoelectrics. *Journal of the American Chemical Society*, **2013**, 135, 4624-7	16.4	111
224	Enhanced atomic ordering leads to high thermoelectric performance in AgSbTe. *Science*, **2021**, 371, 722-727	333	110
223	Enhancing the Figure of Merit of Heavy-Band Thermoelectric Materials Through Hierarchical Phonon Scattering. *Advanced Science*, **2016**, 3, 1600035	13.6	106
222	Enhancement of Thermoelectric Figure of Merit by the Insertion of MgTe Nanostructures in p-type PbTe Doped with Na2Te. *Advanced Energy Materials*, **2012**, 2, 1117-1123	21.8	104

221	Good Performance and Flexible PEDOT:PSS/CuSe Nanowire Thermoelectric Composite Films. *ACS Applied Materials & Interfaces*, **2019**, 11, 12819-12829	9.5	103
220	Enhanced thermoelectric properties of p-type nanostructured PbTeMTe (M = Cd, Hg) materials. *Energy and Environmental Science*, **2013**, 6, 1529	35.4	101
219	Scaling of structure and electrical properties in ultrathin epitaxial ferroelectric heterostructures. *Journal of Applied Physics*, **2006**, 100, 051609	2.5	101
218	Long-Range Ordering of Oxygen-Vacancy Planes in -Fe2O3 Nanowires and Nanobelts. *Chemistry of Materials*, **2008**, 20, 3224-3228	9.6	100
217	Enhanced mid-temperature thermoelectric performance of textured SnSe polycrystals made of solvothermally synthesized powders. *Journal of Materials Chemistry C*, **2016**, 4, 2047-2055	7.1	99
216	Attaining high mid-temperature performance in (Bi,Sb)2Te3 thermoelectric materials via synergistic optimization. *NPG Asia Materials*, **2016**, 8, e302-e302	10.3	96
215	Phonon Scattering and Thermal Conductivity in p-Type Nanostructured PbTe-BaTe Bulk Thermoelectric Materials. *Advanced Functional Materials*, **2012**, 22, 5175-5184	15.6	95
214	In situ nanostructure generation and evolution within a bulk thermoelectric material to reduce lattice thermal conductivity. *Nano Letters*, **2010**, 10, 2825-31	11.5	95
213	Multiple Converged Conduction Bands in KBiSe: A Promising Thermoelectric Material with Extremely Low Thermal Conductivity. *Journal of the American Chemical Society*, **2016**, 138, 16364-16371	16.4	95
212	Ultrahigh power factor and flexible silver selenide-based composite film for thermoelectric devices. *Energy and Environmental Science*, **2020**, 13, 1240-1249	35.4	94
211	Liquid-like thermal conduction in intercalated layered crystalline solids. *Nature Materials*, **2018**, 17, 226-230	27	92
210	Realizing record high performance in n-type Bi2Te3-based thermoelectric materials. *Energy and Environmental Science*, **2020**, 13, 2106-2114	35.4	90
209	Morphology control of nanostructures: Na-doped PbTe-PbS system. *Nano Letters*, **2012**, 12, 5979-84	11.5	90
208	Simultaneously enhancing the power factor and reducing the thermal conductivity of SnTe via introducing its analogues. *Energy and Environmental Science*, **2017**, 10, 2420-2431	35.4	89
207	Enhanced thermoelectric performance of PbTe bulk materials with figure of merit zT >2 by multi-functional alloying. *Journal of Materiomics*, **2016**, 2, 141-149	6.7	89
206	Potential-Dependent Phase Transition and Mo-Enriched Surface Reconstruction of CoOOH in a Heterostructured Co-Mo2C Precatalyst Enable Water Oxidation. *ACS Catalysis*, **2020**, 10, 4411-4419	13.1	88
205	High-Performance Thermoelectricity in Nanostructured Earth-Abundant Copper Sulfides Bulk Materials. *Advanced Energy Materials*, **2016**, 6, 1600607	21.8	86
204	Raising thermoelectric performance of n-type SnSe via Br doping and Pb alloying. *RSC Advances*, **2016**, 6, 98216-98220	3.7	86

203	Electronic and magnetic properties of ultrathin Au/Pt nanowires. *Nano Letters*, **2009**, 9, 3177-84	11.5	85
202	Seeing is believing: weak phonon scattering from nanostructures in alkali metal-doped lead telluride. *Nano Letters*, **2012**, 12, 343-7	11.5	83
201	Synergistic modulation of mobility and thermal conductivity in (Bi,Sb)2Te3 towards high thermoelectric performance. *Energy and Environmental Science*, **2019**, 12, 624-630	35.4	82
200	Direct observation of vast off-stoichiometric defects in single crystalline SnSe. *Nano Energy*, **2017**, 35, 321-330	17.1	80
199	Controlled heterogeneous water distribution and evaporation towards enhanced photothermal water-electricity-hydrogen production. *Nano Energy*, **2020**, 77, 105102	17.1	79
198	Power generation and thermoelectric cooling enabled by momentum and energy multiband alignments. *Science*, **2021**, 373, 556-561	33.3	79
197	Highly Enhanced Thermoelectric Properties of Bi/BiS Nanocomposites. *ACS Applied Materials & Interfaces*, **2017**, 9, 4828-4834	9.5	77
196	Significantly Enhanced Thermoelectric Performance in n-type Heterogeneous BiAgSeS Composites. *Advanced Functional Materials*, **2014**, 24, 7763-7771	15.6	74
195	High Thermoelectric Performance Achieved in GeTeBi2Te3 Pseudo-Binary via Van der Waals Gap-Induced Hierarchical Ferroelectric Domain Structure. *Advanced Functional Materials*, **2019**, 29, 1806613	15.6	68
194	Polymer/carbon nanotube composite materials for flexible thermoelectric power generator. *Composites Science and Technology*, **2017**, 153, 71-83	8.6	67
193	Advanced electron microscopy for thermoelectric materials. *Nano Energy*, **2015**, 13, 626-650	17.1	67
192	Boosting the Thermoelectric Performance of Pseudo-Layered SbTe(GeTe) via Vacancy Engineering. *Advanced Science*, **2018**, 5, 1801514	13.6	66
191	Enhanced thermoelectric properties of bismuth telluride bulk achieved by telluride-spilling during the spark plasma sintering process. *Scripta Materialia*, **2018**, 143, 90-93	5.6	61
190	Surface nitridation of nickel-cobalt alloy nanocactoids raises the performance of water oxidation and splitting. *Applied Catalysis B: Environmental*, **2020**, 270, 118889	21.8	60
189	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	13	59
188	High thermoelectric performance in n-type BiAgSeS due to intrinsically low thermal conductivity. *Energy and Environmental Science*, **2013**, 6, 1750	35.4	59
187	Preparation and Characterization of Te/Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate)/CuTe Ternary Composite Films for Flexible Thermoelectric Power Generator. *ACS Applied Materials & Interfaces*, **2018**, 10, 42310-42319	9.5	59
186	Optical Functional Materials Inspired by Biology. *Advanced Optical Materials*, **2016**, 4, 195-224	8.1	54

185	The Thermoelectric Properties of SnSe Continue to Surprise: Extraordinary Electron and Phonon Transport. *Chemistry of Materials*, **2018**, 30, 7355-7367	9.6	52
184	Realizing High-Ranged Out-of-Plane ZTs in N-Type SnSe Crystals through Promoting Continuous Phase Transition. *Advanced Energy Materials*, **2019**, 9, 1901334	21.8	51
183	Enhancing Localized Evaporation through Separated Light Absorbing Centers and Scattering Centers. *Scientific Reports*, **2015**, 5, 17276	4.9	50
182	Ion-exchangeable cobalt polysulfide chalcogel. *Journal of the American Chemical Society*, **2011**, 133, 1200-2	16.4	50
181	Thermoelectric Properties and Nanostructuring in the p-Type Materials NaPb18□SnxMTe20 (M = Sb, Bi). *Chemistry of Materials*, **2009**, 21, 1683-1694	9.6	50
180	Realizing high-efficiency power generation in low-cost PbS-based thermoelectric materials. *Energy and Environmental Science*, **2020**, 13, 579-591	35.4	50
179	Multipoint Defect Synergy Realizing the Excellent Thermoelectric Performance of n-Type Polycrystalline SnSe via Re Doping. *Advanced Functional Materials*, **2019**, 29, 1902893	15.6	49
178	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	13	48
177	Selective Surfaces: Quaternary Co(Ni)MoS-Based Chalcogels with Divalent (Pb2+, Cd2+, Pd2+) and Trivalent (Cr3+, Bi3+) Metals for Gas Separation. *Chemistry of Materials*, **2012**, 24, 3380-3392	9.6	47
176	PbTe□PbSnS2 thermoelectric composites: low lattice thermal conductivity from large microstructures. *Energy and Environmental Science*, **2012**, 5, 8716	35.4	47
175	Growth dynamics and strain relaxation mechanisms in BaTiO3 pulsed laser deposited on SrRuO3□SrTiO3. *Physical Review B*, **2006**, 73,	3.3	47
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172	Enhanced thermoelectric properties of SnSe polycrystals via texture control. *Physical Chemistry Chemical Physics*, **2016**, 18, 31821-31827	3.6	43
171	Understanding Nanostructuring Processes in Thermoelectrics and Their Effects on Lattice Thermal Conductivity. *Advanced Materials*, **2016**, 28, 2737-43	24	43
170	Anomalous electronic transport in dual-nanostructured lead telluride. *Journal of the American Chemical Society*, **2011**, 133, 8786-9	16.4	43
169	Strategy to optimize the overall thermoelectric properties of SnTe via compositing with its property-counter CuInTe2. *Acta Materialia*, **2017**, 125, 542-549	8.4	41
168	Synergistically optimizing thermoelectric transport properties of n-type PbTe via Se and Sn co-alloying. *Journal of Alloys and Compounds*, **2017**, 724, 208-221	5.7	41

167	Extremely Low Thermal Conductivity in Thermoelectric Ge0.55Pb0.45Te Solid Solutions via Se Substitution. *Chemistry of Materials*, **2016**, 28, 6367-6373	9.6	39
166	2D hetero-nanosheets to enable ultralow thermal conductivity by all scale phonon scattering for highly thermoelectric performance. *Nano Energy*, **2016**, 30, 780-789	17.1	39
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164	Hydrothermal degradation of cubic zirconia. *Acta Materialia*, **2003**, 51, 5123-5130	8.4	39
163	Unexpected Large Hole Effective Masses in SnSe Revealed by Angle-Resolved Photoemission Spectroscopy. *Physical Review Letters*, **2017**, 119, 116401	7.4	37
162	Energetics of Nanoparticle Exsolution from Perovskite Oxides. *Journal of Physical Chemistry Letters*, **2018**, 9, 3772-3778	6.4	37
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159	Sharp ferroelectric phase transition in strained single-crystalline SrRuO3/Ba0.7Sr0.3TiO3/SrRuO3 capacitors. *Applied Physics Letters*, **2003**, 83, 5011-5013	3.4	35
158	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	13	35
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156	Comparison of precursors for pulsed metal□rganic chemical vapor deposition of HfO2 high-K dielectric thin films. *Thin Solid Films*, **2005**, 478, 206-217	2.2	34
155	Influence of defects on the thermoelectricity in SnSe: A comprehensive theoretical study. *Physical Review B*, **2018**, 97,	3.3	33
154	Achieving an excellent thermoelectric performance in nanostructured copper sulfide bulk via a fast doping strategy. *Materials Today Physics*, **2019**, 8, 71-77	8	33
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152	Substrateless Welding of Self-Assembled Silver Nanowires at Air/Water Interface. *ACS Applied Materials & Interfaces*, **2016**, 8, 20483-90	9.5	32
151	Enhancing thermoelectric performance of SnTe via nanostructuring particle size. *Journal of Alloys and Compounds*, **2017**, 709, 575-580	5.7	31
150	Effective atomic interface engineering in Bi2Te2.7Se0.3 thermoelectric material by atomic-layer-deposition approach. *Nano Energy*, **2018**, 49, 257-266	17.1	30

149	Sol-gel-derived epitaxial nanocomposite thin films with large sharp magnetoelectric effect. *ACS Nano*, **2010**, 4, 6836-42	16.7	29
148	Interfacial reaction in the growth of epitaxial SrTiO3 thin films on (001) Si substrates. *Journal of Applied Physics*, **2005**, 97, 104921	2.5	29
147	Investigation into the extremely low thermal conductivity in Ba heavily doped BiCuSeO. *Nano Energy*, **2016**, 27, 167-174	17.1	29
146	The Role of Electron‐Phonon Interaction in Heavily Doped Fine-Grained Bulk Silicons as Thermoelectric Materials. *Advanced Electronic Materials*, **2016**, 2, 1600171	6.4	28
145	High Performance and Flexible Polyvinylpyrrolidone/Ag/AgTe Ternary Composite Film for Thermoelectric Power Generator. *ACS Applied Materials & Interfaces*, **2019**, 11, 33254-33262	9.5	28
144	Dopant Distributions in PbTe-Based Thermoelectric Materials. *Journal of Electronic Materials*, **2012**, 41, 1583-1588	1.9	28
143	Direct observation of a fully strained dead layer at Ba0.7Sr0.3TiO3‐SrRuO3 interface. *Applied Physics Letters*, **2005**, 87, 062901	3.4	28
142	Eutectoid nano-precipitates inducing remarkably enhanced thermoelectric performance in (Sn1−xCdxTe)1−y(Cu2Te)y. *Journal of Materials Chemistry A*, **2020**, 8, 2798-2808	13	28
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138	Synergizing aliovalent doping and interface in heterostructured NiV nitride@oxyhydroxide core-shell nanosheet arrays enables efficient oxygen evolution. *Nano Energy*, **2021**, 85, 105961	17.1	26
137	Interfacial and microstructural properties of SrTiO3 thin films grown on Si(001) substrates. *Journal of Applied Physics*, **2002**, 92, 7200-7205	2.5	25
136	Integrating plasmonic nanostructures with natural photonic architectures in Pd-modified butterfly wings for sensitive hydrogen gas sensing.. *RSC Advances*, **2018**, 8, 32395-32400	3.7	25
135	Entropy engineering promotes thermoelectric performance in p-type chalcogenides. *Nature Communications*, **2021**, 12, 3234	17.4	24
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133	Investigations on distinct thermoelectric transport behaviors of Cu in n-type PbS. *Journal of Alloys and Compounds*, **2019**, 781, 820-830	5.7	23
132	High-performance low-temperature magnetic refrigerants made of gadolinium-hydroxy-chloride. *Journal of Materials Chemistry C*, **2016**, 4, 6473-6477	7.1	22

131	Enhancing thermoelectric performance of SnTe via stepwisely optimizing electrical and thermal transport properties. *Journal of Alloys and Compounds*, **2019**, 773, 571-584	5.7	22
130	Attempting to realize n-type BiCuSeO. *Journal of Solid State Chemistry*, **2018**, 258, 510-516	3.3	22
129	High Performance Polymer Thermoelectric Composite Achieved by Carbon-Coated Carbon Nanotubes Network. *ACS Applied Energy Materials*, **2019**, 2, 2427-2434	6.1	21
128	Constructing van der Waals gaps in cubic-structured SnTe-based thermoelectric materials. *Energy and Environmental Science*, **2020**, 13, 5135-5142	35.4	21
127	Aqueous gel casting of water-soluble calcia-based ceramic core for investment casting using epoxy resin as a binder. *International Journal of Advanced Manufacturing Technology*, **2016**, 86, 1235-1242	3.2	21
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125	Microstructure and interfaces of HfO2 thin films grown on silicon substrates. *Journal of Crystal Growth*, **2004**, 262, 295-303	1.6	21
124	Colloidal syntheses of zero-dimensional CsSnX (X = Br, I) nanocrystals with high emission efficiencies. *Chemical Communications*, **2020**, 56, 387-390	5.8	20
123	Step-Up Thermoelectric Performance Realized in Bi2Te3 Alloyed GeTe via Carrier Concentration and Microstructure Modulations. *ACS Applied Energy Materials*, **2019**, 2, 1616-1622	6.1	20
122	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	6.7	19
121	Dynamic piezo-thermoelectric generator for simultaneously harvesting mechanical and thermal energies. *Nano Energy*, **2020**, 69, 104397	17.1	19
120	Hierarchical Self-Assembly of Nanowires on the Surface by Metallo-Supramolecular Truncated Cuboctahedra. *Journal of the American Chemical Society*, **2021**, 143, 5826-5835	16.4	19
119	N-type Bi-doped SnSe Thermoelectric Nanomaterials Synthesized by a Facile Solution Method. *Inorganic Chemistry*, **2018**, 57, 13800-13808	5.1	19
118	Origin of the enhancement in transport properties on polycrystalline SnSe with compositing two-dimensional material MoSe. *Nanotechnology*, **2017**, 28, 105708	3.4	18
117	Butterfly Wing Hears Sound: Acoustic Detection Using Biophotonic Nanostructure. *Nano Letters*, **2019**, 19, 2627-2633	11.5	17
116	Realizing Improved Thermoelectric Performance in BiI3-Doped Sb2Te3(GeTe)17 via Introducing Dual Vacancy Defects. *Chemistry of Materials*, **2020**, 32, 1693-1701	9.6	17
115	Hydrothermal synthesis of SnQ (Q = Te, Se, S) and their thermoelectric properties. *Nanotechnology*, **2017**, 28, 455707	3.4	17
114	A novel 3D-printable hydrogel with high mechanical strength and shape memory properties. *Journal of Materials Chemistry C*, **2019**, 7, 14913-14922	7.1	17

113	Coherent Sb/CuTe Core/Shell Nanostructure with Large Strain Contrast Boosting the Thermoelectric Performance of n-Type PbTe. *Advanced Functional Materials*, **2021**, 31, 2007340	15.6	17
112	A highly asymmetric interfacial superstructure in WC: expanding the classic grain boundary segregation and new complexion theories. *Materials Horizons*, **2020**, 7, 173-180	14.4	16
111	Remarkably enhanced thermoelectric properties of Bi2S3 nanocomposites via modulation doping and grain boundary engineering. *Applied Surface Science*, **2020**, 520, 146341	6.7	16
110	Enhanced-Performance PEDOT:PSS/CuSe-Based Composite Films for Wearable Thermoelectric Power Generators. *ACS Applied Materials & Interfaces*, **2021**, 13, 631-638	9.5	16
109	Achieving high thermoelectric performance of CuS composites with WSe nanoparticles. *Nanotechnology*, **2018**, 29, 345402	3.4	15
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