Jia-Qing He

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.

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	Self-supported hierarchical crystalline carbon nitride arrays with triazine-heptazine heterojunctions for highly efficient photoredox catalysis. *Chemical Engineering Journal*, **2022**, 435, 134865	14.7	0
273	Excellent thermoelectric properties and stability realized in copper sulfides based composites via complex nanostructuring. *Acta Materialia*, **2022**, 233, 117972	8.4	0
272	All-Soft and Stretchable Thermogalvanic Gel Fabric for Antideformity Body Heat Harvesting Wearable. *Advanced Energy Materials*, **2021**, 11, 2102219	21.8	8
271	Enhanced Thermoelectric Performance Achieved in SnTe via the Synergy of Valence Band Regulation and Fermi Level Modulation. *ACS Applied Materials & Interfaces*, **2021**, 13, 50037-50045	9.5	0
270	Strained Endotaxial PbS Nanoprecipitates Boosting Ultrahigh Thermoelectric Quality Factor in n-Type PbTe As-Cast Ingots. *Small*, **2021**, e2104496	11	7
269	Realizing high thermoelectric performance in N-type Bi2Te3 compounds by Sb nano-precipitates. *Journal of Applied Physics*, **2021**, 130, 135103	2.5	2
268	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu2SnSe3. *Advanced Energy Materials*, **2021**, 11, 2100661	21.8	11
267	High performance Ag2Se/Ag/PEDOT composite films for wearable thermoelectric power generators. *Materials Today Physics*, **2021**, 21, 100553	8	2
266	Porous Thermoelectric Zintl: YbCd2Sb2. *ACS Applied Energy Materials*, **2021**, 4, 913-920	6.1	3
265	Surface Crystallization of Amorphous Palladium Nanoparticles. *Journal of Physical Chemistry C*, **2021**, 125, 1107-1112	3.8	
264	Plasmonic evolution of atomically size-selected Au clusters by electron energy loss spectrum.. *National Science Review*, **2021**, 8, nwaa282	10.8	2
263	Interfacial superstructures and chemical bonding transitions at metal-ceramic interfaces. *Science Advances*, **2021**, 7,	14.3	8
262	High Power Factor Ag/AgSe Composite Films for Flexible Thermoelectric Generators. *ACS Applied Materials & Interfaces*, **2021**, 13, 14327-14333	9.5	15
261	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
260	Entropy engineering promotes thermoelectric performance in p-type chalcogenides. *Nature Communications*, **2021**, 12, 3234	17.4	24
259	Thermoelectric materials with crystal-amorphicity duality induced by large atomic size mismatch. *Joule*, **2021**, 5, 1183-1195	27.8	9
258	Point Defect Engineering: Co-Doping Synergy Realizing Superior Performance in n-Type Bi Te Thermoelectric Materials. *Small*, **2021**, 17, e2101328	11	2

257	Realizing High Thermoelectric Performance in Earth-Abundant Bi2S3 Bulk Materials via Halogen Acid Modulation. *Advanced Functional Materials*, **2021**, 31, 2102838	15.6	6
256	Power generation and thermoelectric cooling enabled by momentum and energy multiband alignments. *Science*, **2021**, 373, 556-561	33.3	79
255	Electric Polarization Switching on an Atomically Thin Metallic Oxide. *Nano Letters*, **2021**, 21, 144-150	11.5	5
254	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
253	Design guidelines for chalcogenide-based flexible thermoelectric materials. *Materials Advances*, **2021**, 2, 2584-2593	3.3	5
252	SnSe, the rising star thermoelectric material: a new paradigm in atomic blocks, building intriguing physical properties. *Materials Horizons*, **2021**, 8, 1847-1865	14.4	9
251	Atomic origins of the strong metal-support interaction in silica supported catalysts. *Chemical Science*, **2021**, 12, 12651-12660	9.4	7
250	Enhanced atomic ordering leads to high thermoelectric performance in AgSbTe. *Science*, **2021**, 371, 722-727	33.3	110
249	High-entropy-stabilized chalcogenides with high thermoelectric performance. *Science*, **2021**, 371, 830-834	33.3	167
248	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
247	Highly Enhanced Thermoelectric and Mechanical Properties of Bi-Sb-Te Compounds by Carrier Modulation and Microstructure Adjustment. *ACS Applied Materials & Interfaces*, **2021**, 13, 45589-45599	9.5	2
246	Direct Atomic-Scale Structure and Electric Field Imaging of Triazine-Based Crystalline Carbon Nitride. *Advanced Materials*, **2021**, 33, e2106359	24	3
245	High-Conductive Protonated Layered Oxides from H O Vapor-Annealed Brownmillerites. *Advanced Materials*, **2021**, 33, e2104623	24	3
244	Realizing High Thermoelectric Performance in Earth-Abundant Bi2S3 Bulk Materials via Halogen Acid Modulation (Adv. Funct. Mater. 37/2021). *Advanced Functional Materials*, **2021**, 31, 2170277	15.6	1
243	Enhanced thermoelectric performance in GeTe-Sb2Te3 pseudo-binary via lattice symmetry regulation and microstructure stabilization. *Materials Today Physics*, **2021**, 21, 100507	8	5
242	Enhanced-Performance PEDOT:PSS/CuSe-Based Composite Films for Wearable Thermoelectric Power Generators. *ACS Applied Materials & Interfaces*, **2021**, 13, 631-638	9.5	16
241	Synergistic Strategies to Boost Lead Telluride as Prospective Thermoelectrics **2021**, 155-189		1
240	Site determination of Mn atoms in Sn-Mn-Te alloy by electron channeling enhanced microanalysis. *Applied Physics Letters*, **2021**, 119, 243906	3.4	0

239	Synergy of Valence Band Modulation and Grain Boundary Engineering Leading to Improved Thermoelectric Performance in SnTe. *ACS Applied Energy Materials*, **2021**, 4, 14608-14617	6.1	3
238	First-Principles Study of Anharmonic Lattice Dynamics in Low Thermal Conductivity AgCrSe_{2}: Evidence for a Large Resonant Four-Phonon Scattering. *Physical Review Letters*, **2020**, 125, 245901	7.4	9
237	Constructing van der Waals gaps in cubic-structured SnTe-based thermoelectric materials. *Energy and Environmental Science*, **2020**, 13, 5135-5142	35.4	21
236	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	11.5	14
235	Nano-patterning of a monolayer molybdenum disulfide with sub-nanometer helium ion beam: considering its shape, size and damage. *Nanotechnology*, **2020**, 31, 345302	3.4	5
234	Realizing record high performance in n-type Bi2Te3-based thermoelectric materials. *Energy and Environmental Science*, **2020**, 13, 2106-2114	35.4	90
233	Three-dimensional Insight on Formation and Light-harvesting of Hollow-structure Carbon Nitride. *ACS Applied Energy Materials*, **2020**, 3, 7020-7029	6.1	3
232	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
231	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
230	Antisite Defect-Enhanced Thermoelectric Performance of Topological Crystalline Insulators. *Advanced Functional Materials*, **2020**, 30, 2003162	15.6	7
229	Visible-light-stimulated Alkalis-triggered Platinum Cocatalyst with Electron Deficient Interface for Hydrogen Evolution. *ChemCatChem*, **2020**, 12, 2189-2193	5.2	3
228	Redesign high-performance flexible thermoelectrics: From mathematical algorithm to artificial cracks. *Applied Physics Letters*, **2020**, 116, 043904	3.4	3
227	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
226	Excellent Thermoelectric Performance Realized in p-Type Pseudolayered Sb2Te3(GeTe)12 via Rhenium Doping. *ACS Applied Energy Materials*, **2020**, 3, 2063-2069	6.1	10
225	Butterfly Wing Inspired High Performance Infrared Detection with Spectral Selectivity. *Advanced Optical Materials*, **2020**, 8, 1901647	8.1	3
224	Realizing high-efficiency power generation in low-cost PbS-based thermoelectric materials. *Energy and Environmental Science*, **2020**, 13, 579-591	35.4	50
223	Colloidal syntheses of zero-dimensional CsSnX (X = Br, I) nanocrystals with high emission efficiencies. *Chemical Communications*, **2020**, 56, 387-390	5.8	20
222	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

221	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
220	Dynamic piezo-thermoelectric generator for simultaneously harvesting mechanical and thermal energies. *Nano Energy*, **2020**, 69, 104397	17.1	19
219	Dimer rattling mode induced low thermal conductivity in an excellent acoustic conductor. *Nature Communications*, **2020**, 11, 5197	17.4	9
218	Achieving High Thermoelectric Performance in p-Type BST/PbSe Nanocomposites through the Scattering Engineering Strategy. *ACS Applied Materials & Interfaces*, **2020**, 12, 46181-46189	9.5	6
217	Controlled heterogeneous water distribution and evaporation towards enhanced photothermal water-electricity-hydrogen production. *Nano Energy*, **2020**, 77, 105102	17.1	79
216	Flash Solid-Solid Synthesis of Silicon Oxide Nanorods. *Small*, **2020**, 16, e2001435	11	1
215	Vapor detection through dynamic process of molecule desorption from butterfly wings. *Pure and Applied Chemistry*, **2020**, 92, 223-232	2.1	1
214	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
213	Ultrahigh power factor and flexible silver selenide-based composite film for thermoelectric devices. *Energy and Environmental Science*, **2020**, 13, 1240-1249	35.4	94
212	Rhodamine Mechanophore Functionalized Mechanochromic Double Network Hydrogels with High Sensitivity to Stress. *Chinese Journal of Polymer Science (English Edition)*, **2020**, 38, 24-36	3.5	12
211	Remarkably enhanced thermoelectric properties of Bi2S3 nanocomposites via modulation doping and grain boundary engineering. *Applied Surface Science*, **2020**, 520, 146341	6.7	16
210	Understanding the effects of iodine doping on the thermoelectric performance of n-type PbTe ingot materials. *Journal of Applied Physics*, **2019**, 126, 025108	2.5	4
209	Enhanced thermoelectric properties in chimney ladder structured Mn(BxSi1-x)1.75 due to the dual lattice occupation of boron. *Applied Physics Letters*, **2019**, 115, 123902	3.4	1
208	Large enhancement of thermoelectric performance of InTe compound by sintering and CuInTe2 doping. *Journal of Applied Physics*, **2019**, 126, 125108	2.5	4
207	High thermoelectric performance in low-cost SnSSe crystals. *Science*, **2019**, 365, 1418-1424	33.3	233
206	GaP−ZnS Multilayer Films: Visible-Light Photoelectrodes by Interface Engineering. *Journal of Physical Chemistry C*, **2019**, 123, 3336-3342	3.8	6
205	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
204	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

203	Directing Gold Nanoparticles into Free-Standing Honeycomb-Like Ordered Mesoporous Superstructures. *Small*, **2019**, 15, e1901304	11	8
202	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
201	Delocalized Carriers and the Electrical Transport Properties of n-Type GeSe Crystals. *ACS Applied Energy Materials*, **2019**, 2, 3703-3707	6.1	5
200	Highly enhanced thermoelectric properties of nanostructured Bi2S3 bulk materials via carrier modification and multi-scale phonon scattering. *Inorganic Chemistry Frontiers*, **2019**, 6, 1374-1381	6.8	13
199	Butterfly Wing Hears Sound: Acoustic Detection Using Biophotonic Nanostructure. *Nano Letters*, **2019**, 19, 2627-2633	11.5	17
198	Good Performance and Flexible PEDOT:PSS/CuSe Nanowire Thermoelectric Composite Films. *ACS Applied Materials & Interfaces*, **2019**, 11, 12819-12829	9.5	103
197	Realizing high thermoelectric performance of polycrystalline SnS through optimizing carrier concentration and modifying band structure. *Journal of Alloys and Compounds*, **2019**, 789, 485-492	5.7	23
196	High Thermoelectric Performance Achieved in GeTe–Bi2Te3 Pseudo-Binary via Van der Waals Gap-Induced Hierarchical Ferroelectric Domain Structure. *Advanced Functional Materials*, **2019**, 29, 1806613	15.6	68
195	Highly enhanced thermoelectric performance in BiCuSeO ceramics realized by Pb doping and introducing Cu deficiencies. *Journal of the American Ceramic Society*, **2019**, 102, 5989-5996	3.8	12
194	High Performance Polymer Thermoelectric Composite Achieved by Carbon-Coated Carbon Nanotubes Network. *ACS Applied Energy Materials*, **2019**, 2, 2427-2434	6.1	21
193	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
192	Superstructures: Directing Gold Nanoparticles into Free-Standing Honeycomb-Like Ordered Mesoporous Superstructures (Small 31/2019). *Small*, **2019**, 15, 1970165	11	
191	Realizing high figure of merit plateau in Ge Bi Te via enhanced Bi solution and Ge precipitation. *Journal of Alloys and Compounds*, **2019**, 805, 831-839	5.7	15
190	Direct atomic-scale observation of the Ag+ diffusion structure in the quasi-2D □iquid-like□state of superionic thermoelectric AgCrSe2. *Journal of Materials Chemistry C*, **2019**, 7, 9263-9269	7.1	9
189	Anisotropic Landau level splitting and Lifshitz transition induced magnetoresistance enhancement in ZrTe5 crystals. *New Journal of Physics*, **2019**, 21, 093009	2.9	3
188	Interfacial origins of visible-light photocatalytic activity in ZnS□aP multilayers. *Acta Materialia*, **2019**, 181, 139-147	8.4	3
187	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
186	Achieving an excellent thermoelectric performance in nanostructured copper sulfide bulk via a fast doping strategy. *Materials Today Physics*, **2019**, 8, 71-77	8	33

185	Achieving a fine balance between the strong mechanical and high thermoelectric properties of n-type PbTe□% Sb materials by alloying with PbS. *Journal of Materials Chemistry A*, **2019**, 7, 6304-6311	13	15
184	High performance n-type AgSe film on nylon membrane for flexible thermoelectric power generator. *Nature Communications*, **2019**, 10, 841	17.4	165
183	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
182	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
181	Investigations on distinct thermoelectric transport behaviors of Cu in n-type PbS. *Journal of Alloys and Compounds*, **2019**, 781, 820-830	5.7	23
180	Effective atomic interface engineering in Bi2Te2.7Se0.3 thermoelectric material by atomic-layer-deposition approach. *Nano Energy*, **2018**, 49, 257-266	17.1	30
179	Excellent thermoelectric performance achieved over broad temperature plateau in indium-doped SnTe-AgSbTe2 alloys. *Applied Physics Letters*, **2018**, 112, 063902	3.4	11
178	SnSe + Ag2Se composite engineering with ball milling for enhanced thermoelectric performance. *Rare Metals*, **2018**, 37, 333-342	5.5	13
177	Liquid-like thermal conduction in intercalated layered crystalline solids. *Nature Materials*, **2018**, 17, 226-230	27	92
176	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
175	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
174	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
173	Achieving high thermoelectric performance of CuS composites with WSe nanoparticles. *Nanotechnology*, **2018**, 29, 345402	3.4	15
172	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
171	Influence of defects on the thermoelectricity in SnSe: A comprehensive theoretical study. *Physical Review B*, **2018**, 97,	3.3	33
170	Coupling effects in 3D plasmonic structures templated by Morpho butterfly wings. *Nanoscale*, **2018**, 10, 533-537	7.7	7
169	Attempting to realize n-type BiCuSeO. *Journal of Solid State Chemistry*, **2018**, 258, 510-516	3.3	22
168	Large enhancement of electrical transport properties of SnS in the out-of-plane direction by n-type doping: a combined ARPES and DFT study. *Journal of Materials Chemistry A*, **2018**, 6, 24588-24594	13	12

167	Electro-interconverted thermogelling and thermothinning polymer solutions. *Polymer Chemistry*, **2018**, 9, 5303-5307	4.9	
166	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
165	Impact of crystalline structures on the thermal stability and Schottky barrier height of NiGe/Ge contact. *Applied Physics Letters*, **2018**, 113, 253503	3.4	1
164	N-type Bi-doped SnSe Thermoelectric Nanomaterials Synthesized by a Facile Solution Method. *Inorganic Chemistry*, **2018**, 57, 13800-13808	5.1	19
163	The Thermoelectric Properties of SnSe Continue to Surprise: Extraordinary Electron and Phonon Transport. *Chemistry of Materials*, **2018**, 30, 7355-7367	9.6	52
162	Boosting the Thermoelectric Performance of Pseudo-Layered SbTe(GeTe) via Vacancy Engineering. *Advanced Science*, **2018**, 5, 1801514	13.6	66
161	Bioinspired Color Change through Guided Reflection. *Advanced Optical Materials*, **2018**, 6, 1800464	8.1	0
160	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
159	Enhanced thermoelectric performance realized in AgBiS2 composited AgBiSe2 through indium doping and mechanical alloying. *Applied Physics Letters*, **2018**, 112, 213905	3.4	7
158	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
157	Energetics of Nanoparticle Exsolution from Perovskite Oxides. *Journal of Physical Chemistry Letters*, **2018**, 9, 3772-3778	6.4	37
156	Understanding Phonon Scattering by Nanoprecipitates in Potassium-Doped Lead Chalcogenides. *ACS Applied Materials & Interfaces*, **2017**, 9, 3686-3693	9.5	4
155	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
154	Highly Enhanced Thermoelectric Properties of Bi/BiS Nanocomposites. *ACS Applied Materials & Interfaces*, **2017**, 9, 4828-4834	9.5	77
153	Grain Boundary Engineering for Achieving High Thermoelectric Performance in n-Type Skutterudites. *Advanced Energy Materials*, **2017**, 7, 1602582	21.8	146
152	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
151	Origin of the enhancement in transport properties on polycrystalline SnSe with compositing two-dimensional material MoSe. *Nanotechnology*, **2017**, 28, 105708	3.4	18
150	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

149	Direct observation of vast off-stoichiometric defects in single crystalline SnSe. *Nano Energy*, **2017**, 35, 321-330	17.1	80
148	Enhancing thermoelectric performance of SnTe via nanostructuring particle size. *Journal of Alloys and Compounds*, **2017**, 709, 575-580	5.7	31
147	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
146	Polymer/carbon nanotube composite materials for flexible thermoelectric power generator. *Composites Science and Technology*, **2017**, 153, 71-83	8.6	67
145	Extraordinary Thermoelectric Performance Realized in n-Type PbTe through Multiphase Nanostructure Engineering. *Advanced Materials*, **2017**, 29, 1703148	24	150
144	Unexpected Large Hole Effective Masses in SnSe Revealed by Angle-Resolved Photoemission Spectroscopy. *Physical Review Letters*, **2017**, 119, 116401	7.4	37
143	Hydrothermal synthesis of SnQ (Q = Te, Se, S) and their thermoelectric properties. *Nanotechnology*, **2017**, 28, 455707	3.4	17
142	Investigation on thermal transport and structural properties of InFeO 3 (ZnO) m with modulated layer structures. *Acta Materialia*, **2017**, 136, 235-241	8.4	9
141	Thermoelectric properties of Cu2Sex prepared by solution phase methods and spark plasma sintering. *Journal of the European Ceramic Society*, **2017**, 37, 4687-4692	6	9
140	Ultrahigh thermoelectric performance in Cu2Se-based hybrid materials with highly dispersed molecular CNTs. *Energy and Environmental Science*, **2017**, 10, 1928-1935	35.4	215
139	Enhanced thermoelectric performance of heavy-fermion YbAl3 via multi-scale microstructures. *Journal of Alloys and Compounds*, **2017**, 725, 1297-1303	5.7	5
138	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
137	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
136	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
135	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
134	Controllable assembly of Pd nanosheets: a solution for 2D materials storage. *CrystEngComm*, **2017**, 19, 3439-3444	3.3	10
133	Revisiting AgCrSe2 as a promising thermoelectric material. *Physical Chemistry Chemical Physics*, **2016**, 18, 23872-8	3.6	32
132	Extremely Low Thermal Conductivity in Thermoelectric Ge0.55Pb0.45Te Solid Solutions via Se Substitution. *Chemistry of Materials*, **2016**, 28, 6367-6373	9.6	39

131	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
130	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
129	Origin of low thermal conductivity in SnSe. *Physical Review B*, **2016**, 94,	3.3	176
128	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
127	Substrateless Welding of Self-Assembled Silver Nanowires at Air/Water Interface. *ACS Applied Materials & Interfaces*, **2016**, 8, 20483-90	9.5	32
126	Enhanced thermoelectric properties of SnSe polycrystals via texture control. *Physical Chemistry Chemical Physics*, **2016**, 18, 31821-31827	3.6	43
125	Understanding Nanostructuring Processes in Thermoelectrics and Their Effects on Lattice Thermal Conductivity. *Advanced Materials*, **2016**, 28, 2737-43	24	43
124	Evolvement of microstructure and lattice thermal conductivity in Na doped PbTe–PbS pseudo-binary system. *Journal of Materiomics*, **2016**, 2, 150-157	6.7	4
123	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
122	High-performance low-temperature magnetic refrigerants made of gadolinium-hydroxy-chloride. *Journal of Materials Chemistry C*, **2016**, 4, 6473-6477	7.1	22
121	Optical Functional Materials Inspired by Biology. *Advanced Optical Materials*, **2016**, 4, 195-224	8.1	54
120	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
119	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
118	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
117	Ultrahigh power factor and thermoelectric performance in hole-doped single-crystal SnSe. *Science*, **2016**, 351, 141-4	33.3	1237
116	Low-cost, abundant binary sulfides as promising thermoelectric materials. *Materials Today*, **2016**, 19, 227-239	21.8	196
115	Investigation into the extremely low thermal conductivity in Ba heavily doped BiCuSeO. *Nano Energy*, **2016**, 27, 167-174	17.1	29
114	High-Performance Thermoelectricity in Nanostructured Earth-Abundant Copper Sulfides Bulk Materials. *Advanced Energy Materials*, **2016**, 6, 1600607	21.8	86

113	Mechanical Alloying and Spark Plasma Sintering of BiCuSeO Oxyselenide: Synthesis Process and Thermoelectric Properties. *Journal of the American Ceramic Society*, **2016**, 99, 507-514	3.8	13
112	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
111	Electrical and thermal transport properties of layered Bi2YO4Cu2Se2. *Journal of Solid State Chemistry*, **2016**, 239, 178-183	3.3	7
110	Attaining high mid-temperature performance in (Bi,Sb)2Te3 thermoelectric materials via synergistic optimization. *NPG Asia Materials*, **2016**, 8, e302-e302	10.3	96
109	Raising thermoelectric performance of n-type SnSe via Br doping and Pb alloying. *RSC Advances*, **2016**, 6, 98216-98220	3.7	86
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