

Tie-Jun Zhu

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.

290
papers

14,971
citations

65
h-index

110
g-index

297
ext. papers

17,139
ext. citations

7.4
avg, IF

6.82
L-index

#	Paper	IF	Citations
290	High-performance Ni/Fe-codoped manganese hexacyanoferrate by scale-up synthesis for practical Na-ion batteries. <i>Materials Today Sustainability</i> , 2022 , 18, 100113	5	
289	Thermoelectric transport effects beyond single parabolic band and acoustic phonon scattering. <i>Materials Advances</i> , 2022 , 3, 734-755	3.3	4
288	Improved thermoelectric properties of zone-melted p-type bismuth-telluride-based alloys for power generation. <i>Rare Metals</i> , 2022 , 41, 1490	5.5	1
287	Low Interfacial Resistivity in CoSi ₂ /ZrCoSb Thermoelectric Junctions. <i>Materials Today Energy</i> , 2022 , 100960	6	1
286	Enhancing the room temperature thermoelectric performance of n-type Bismuth-telluride-based polycrystalline materials by low-angle grain boundaries. <i>Materials Today Physics</i> , 2022 , 22, 100573	8	8
285	Sublattice Short-Range Order and Modified Electronic Structure in Defective Half-Heusler Nb _{0.8} CoSb. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1125-1133	3.8	5
284	Electrochemical Compatibility of Solid-State Electrolytes with Cathodes and Anodes for All-Solid-State Lithium Batteries: A Review. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000101 ¹⁶	10	4
283	A Novel Perovskite Electron-Ion Conductive Coating to Simultaneously Enhance Cycling Stability and Rate Capability of Li Ni Co Mn O Cathode Material for Lithium-Ion Batteries. <i>Small</i> , 2021 , 17, e2008132	11	12
282	Half-Heusler thermoelectric materials. <i>Applied Physics Letters</i> , 2021 , 118, 140503	3.4	13
281	Medium Entropy-Enabled High Performance Cubic GeTe Thermoelectrics. <i>Advanced Science</i> , 2021 , 8, 2100220	13.6	14
280	Tuneable local order in thermoelectric crystals. <i>IUCrJ</i> , 2021 , 8, 695-702	4.7	2
279	Enhancing room-temperature thermoelectric performance of n-type Bi ₂ Te ₃ -based alloys via sulfur alloying. <i>Rare Metals</i> , 2021 , 40, 513-520	5.5	6
278	Mo-Fe/NbFeSb Thermoelectric Junctions: Anti-Thermal Aging Interface and Low Contact Resistivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7317-7323	9.5	7
277	Demonstration of valley anisotropy utilized to enhance the thermoelectric power factor. <i>Nature Communications</i> , 2021 , 12, 5408	17.4	17
276	Fast synthesis and improved electrical stability in n-type Ag ₂ Te thermoelectric materials. <i>Journal of Materials Science and Technology</i> , 2021 , 91, 241-250	9.1	6
275	Visualizing the Mg atoms in Mg ₃ Sb ₂ thermoelectrics using advanced iDPC-STEM technique. <i>Materials Today Physics</i> , 2021 , 21, 100524	8	5
274	Simultaneous Realization of Flexibility and Ultrahigh Normalized Power Density in a Heatsink-Free Thermoelectric Generator via Fine Thermal Regulation.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1

273	Realizing n-type gete through suppressing the formation of cation vacancies and bi-doping*. <i>Chinese Physics Letters</i> , 2021 , 38, 127201	1.8	1
272	Half-Heusler Thermoelectric Module with High Conversion Efficiency and High Power Density. <i>Advanced Energy Materials</i> , 2020 , 10, 2000888	21.8	40
271	Enhanced thermoelectric performance of Bi ₂ Se ₃ /TiO ₂ composite. <i>Rare Metals</i> , 2020 , 39, 887-894	5.5	16
270	Establishing the carrier scattering phase diagram for ZrNiSn-based half-Heusler thermoelectric materials. <i>Nature Communications</i> , 2020 , 11, 3142	17.4	37
269	Scattering Mechanisms and Compositional Optimization of High-Performance Elemental Te as a Thermoelectric Material. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000038	6.4	10
268	Low-cost p-type Bi ₂ Te _{2.7} Se _{0.3} zone-melted thermoelectric materials for solid-state refrigeration. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154732	5.7	10
267	Atomic disordering advances thermoelectric group IV telluride alloys with a multiband transport. <i>Materials Today Physics</i> , 2020 , 15, 100247	8	17
266	Influence of Electron-Phonon Interaction on the Lattice Thermal Conductivity in Single-Crystal Si. <i>Annalen Der Physik</i> , 2020 , 532, 1900435	2.6	1
265	A new defective 19-electron TiPtSb half-Heusler thermoelectric compound with heavy band and low lattice thermal conductivity. <i>Materials Today Physics</i> , 2020 , 13, 100200	8	12
264	Enhancing the average thermoelectric figure of merit of elemental Te by suppressing grain boundary scattering. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8455-8461	13	15
263	A simple model for vacancy order and disorder in defective half-Heusler systems. <i>IUCrJ</i> , 2020 , 7, 673-680	4.7	14
262	High-Performance MgSb Bi Thermoelectrics: Progress and Perspective. <i>Research</i> , 2020 , 2020, 1934848	7.8	30
261	Violation of the Relationship in the Lattice Thermal Conductivity of MgSb with Locally Asymmetric Vibrations. <i>Research</i> , 2020 , 2020, 4589786	7.8	9
260	Revealing the Intrinsic Electronic Structure of 3D Half-Heusler Thermoelectric Materials by Angle-Resolved Photoemission Spectroscopy. <i>Advanced Science</i> , 2020 , 7, 1902409	13.6	31
259	Low contact resistivity and long-term thermal stability of Nb _{0.8} Ti _{0.2} FeSb/Ti thermoelectric junction. <i>Journal of Materials Science and Technology</i> , 2020 , 40, 113-118	9.1	7
258	Anisotropic Thermoelectric Properties of n-Type Te-Free (Bi, Sb) ₂ Se ₃ with Orthorhombic Structure. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2070-2077	6.1	5
257	A Device-to-Material Strategy Guiding the Double-High Thermoelectric Module. <i>Joule</i> , 2020 , 4, 2475-2483	7.8	27
256	Tuning Optimum Temperature Range of Bi Te -Based Thermoelectric Materials by Defect Engineering. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2775-2792	4.5	21

255	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14822-14828	13	24
254	Direct visualization of spatially correlated displacive short-range ordering in NbCoSb. <i>Nanoscale</i> , 2020 , 12, 21624-21628	7.7	5
253	Creep behavior and postcreep thermoelectric performance of the n-type half-Heusler alloy Hf _{0.3} Zr _{0.7} NiSn _{0.98} Sb _{0.02} . <i>Materials Today Physics</i> , 2019 , 9, 100134	8	16
252	Grain Boundary Scattering of Charge Transport in n-Type (Hf,Zr)CoSb Half-Heusler Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2019 , 9, 1803447	21.8	51
251	Enhanced thermoelectric performance in the n-type NbFeSb half-Heusler compound with heavy element Ir doping. <i>Materials Today Physics</i> , 2019 , 8, 62-70	8	29
250	Approaching the minimum lattice thermal conductivity of p-type SnTe thermoelectric materials by Sb and Mg alloying. <i>Science Bulletin</i> , 2019 , 64, 1024-1030	10.6	29
249	Si/Ti ₃ SiC ₂ composite anode with enhanced elastic modulus and high electronic conductivity for lithium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 431, 55-62	8.9	23
248	Short-range order in defective half-Heusler thermoelectric crystals. <i>Energy and Environmental Science</i> , 2019 , 12, 1568-1574	35.4	51
247	Complex Band Structures and Lattice Dynamics of Bi ₂ Te ₃ -Based Compounds and Solid Solutions. <i>Advanced Functional Materials</i> , 2019 , 29, 1900677	15.6	74
246	Continuously Enhanced Structural Disorder To Suppress the Lattice Thermal Conductivity of ZrNiSn-Based Half-Heusler Alloys by Multielement and Multisite Alloying with Very Low Hf Content. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13397-13404	9.5	24
245	Low Contact Resistivity and Interfacial Behavior of p-Type NbFeSb/Mo Thermoelectric Junction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14182-14190	9.5	19
244	Mid-temperature thermoelectric performance of zone-melted Sb ₂ (Te,Se) ₃ alloys near phase transition boundary. <i>Journal of Materiomics</i> , 2019 , 5, 590-596	6.7	7
243	Pressure tuning of thermoelectric performance in FeNbSb. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 1224-1230	5.7	3
242	Multiscale Defects as Strong Phonon Scatters to Enhance Thermoelectric Performance in Mg ₂ Sn _{1-x} Sbx Solid Solutions. <i>Small Methods</i> , 2019 , 3, 1900412	12.8	6
241	Evolution of the Intrinsic Point Defects in Bismuth Telluride-Based Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41424-41431	9.5	26
240	Liquid-Phase Hot Deformation to Enhance Thermoelectric Performance of n-type Bismuth-Telluride-Based Solid Solutions. <i>Advanced Science</i> , 2019 , 6, 1901702	13.6	39
239	Hybrid Organic-Inorganic Thermoelectric Materials and Devices. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15206-15226	16.4	87
238	High-efficiency half-Heusler thermoelectric modules enabled by self-propagating synthesis and topologic structure optimization. <i>Energy and Environmental Science</i> , 2019 , 12, 3390-3399	35.4	77

237	The enhanced electrochemical response of Sr(Ti _{0.3} Fe _{0.7} Ru _{0.07})O _{3-δ} anodes due to exsolved RuO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5193-5201	13	24
236	Valleytronics in thermoelectric materials. <i>Npj Quantum Materials</i> , 2018 , 3,	5	67
235	Thermoelectric performance of p-type zone-melted Se-doped Bi _{0.5} Sb _{1.5} Te ₃ alloys. <i>Rare Metals</i> , 2018 , 37, 308-315	5.5	30
234	Editorial for rare metals, special issue on advanced thermoelectric materials. <i>Rare Metals</i> , 2018 , 37, 257-358	35.8	5
233	A novel strategy to significantly enhance the initial voltage and suppress voltage fading of a Li- and Mn-rich layered oxide cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3610-3624	13	68
232	High performance p-type half-Heusler thermoelectric materials. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 113001	3	44
231	Enhanced Thermoelectric Performance in 18-Electron Nb _{0.8} CoSb Half-Heusler Compound with Intrinsic Nb Vacancies. <i>Advanced Functional Materials</i> , 2018 , 28, 1705845	15.6	79
230	Synthesis and thermoelectric properties of Rashba semiconductor BiTeBr with intensive texture. <i>Rare Metals</i> , 2018 , 37, 274-281	5.5	13
229	A valence balanced rule for discovery of 18-electron half-Heuslers with defects. <i>Energy and Environmental Science</i> , 2018 , 11, 1480-1488	35.4	68
228	Enhancing thermoelectric performance of FeNbSb half-Heusler compound by Hf-Ti dual-doping. <i>Energy Storage Materials</i> , 2018 , 10, 69-74	19.4	29
227	Unique Role of Refractory Ta Alloying in Enhancing the Figure of Merit of NbFeSb Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2018 , 8, 1701313	21.8	128
226	Origin of efficient thermoelectric performance in half-Heusler FeNb _{0.8} Ti _{0.2} Sb. <i>Journal of Applied Physics</i> , 2018 , 123, 235106	2.5	5
225	Band Structures and Transport Properties of High-Performance Half-Heusler Thermoelectric Materials by First Principles. <i>Materials</i> , 2018 , 11,	3.5	25
224	Li- and Mn-rich layered oxide cathode materials for lithium-ion batteries: a review from fundamentals to research progress and applications. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 748-803	4.6	87
223	How to Measure Thermoelectric Properties Reliably. <i>Joule</i> , 2018 , 2, 2183-2188	27.8	38
222	Mode Grüneisen parameters of an efficient thermoelectric half-Heusler. <i>Journal of Applied Physics</i> , 2018 , 124, 195107	2.5	8
221	Transport mechanisms and property optimization of p-type (Zr, Hf)CoSb half-Heusler thermoelectric materials. <i>Materials Today Physics</i> , 2018 , 7, 69-76	8	43
220	Growth and transport properties of Mg ₃ X ₂ (X = Sb, Bi) single crystals. <i>Materials Today Physics</i> , 2018 , 7, 61-68	8	38

219	Temperature Dependent n-Type Self Doping in Nominally 19-Electron Half-Heusler Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2018 , 8, 1801409	21.8	38
218	Self-propagation high-temperature synthesis of half-Heusler thermoelectric materials: reaction mechanism and applicability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19470-19478	13	21
217	Enhanced thermoelectric performance of n-type bismuth-telluride-based alloys via In alloying and hot deformation for mid-temperature power generation. <i>Journal of Materiomics</i> , 2018 , 4, 208-214	6.7	28
216	Defect modulation on CaZn _{1-x} Ag _{1-x} Sb (0 Journal of Materials Chemistry A, 2018 , 6, 11773-11782	13	16
215	Tunable Optimum Temperature Range of High-Performance Zone Melted Bismuth-Telluride-Based Solid Solutions. <i>Crystal Growth and Design</i> , 2018 , 18, 4646-4652	3.5	17
214	Lanthanide Contraction as a Design Factor for High-Performance Half-Heusler Thermoelectric Materials. <i>Advanced Materials</i> , 2018 , 30, e1800881	24	66
213	Structure, Magnetism, and Thermoelectric Properties of Magnesium-Containing Antimonide Zintl Phases SrMgSb and EuMgSb. <i>Inorganic Chemistry</i> , 2017 , 56, 1646-1654	5.1	19
212	Mg vacancy and dislocation strains as strong phonon scatterers in Mg ₂ Si _{1-x} Sb _x thermoelectric materials. <i>Nano Energy</i> , 2017 , 34, 428-436	17.1	85
211	Compromise and Synergy in High-Efficiency Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1605884	17.1	74.2
210	Defect control in Ca _{1-x} Te _x Ag _{1-x} Bb (x=0.15) through Nb doping. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1113-1119	6.8	2
209	Comprehensive thermal growth compensation method of spindle and servo axis error on a vertical drilling center. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 2507-2516	3.2	7
208	Improving deformability of Sb ₂ Te ₃ layered material by dislocation climb at anti-phase boundary. <i>Scripta Materialia</i> , 2017 , 135, 10-14	5.6	10
207	Enhancing room temperature thermoelectric performance of n-type polycrystalline bismuth-telluride-based alloys via Ag doping and hot deformation. <i>Materials Today Physics</i> , 2017 , 2, 62-68	8	51
206	AMgBi (A = Ca, Sr, Eu): Magnesium Bismuth Based Zintl Phases as Potential Thermoelectric Materials. <i>Inorganic Chemistry</i> , 2017 , 56, 10576-10583	5.1	23
205	Enhancing Thermoelectric Performance of n-Type Hot Deformed Bismuth-Telluride-Based Solid Solutions by Nonstoichiometry-Mediated Intrinsic Point Defects. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28577-28585	9.5	55
204	Anisotropic thermoelectric properties of layered compound SnSe ₂ . <i>Science Bulletin</i> , 2017 , 62, 1663-1668	10.6	38
203	Elaborating the Crystal Structures of MgAgSb Thermoelectric Compound: Polymorphs and Atomic Disorders. <i>Chemistry of Materials</i> , 2017 , 29, 6378-6388	9.6	15
202	Hierarchical Chemical Bonds Contributing to the Intrinsically Low Thermal Conductivity in MgAgSb Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2017 , 27, 1604145	15.6	154

201	Are Solid Solutions Better in FeNbSb-Based Thermoelectrics?. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600394	6.4	22
200	The Role of Electron-Phonon Interaction in Heavily Doped Fine-Grained Bulk Silicons as Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600171	6.4	28
199	Enhanced thermoelectric performance of PbTe bulk materials with figure of merit $zT > 2$ by multi-functional alloying. <i>Journal of Materiomics</i> , 2016 , 2, 141-149	6.7	89
198	Altered long non-coding RNA transcriptomic profiles in brain microvascular endothelium after cerebral ischemia. <i>Experimental Neurology</i> , 2016 , 277, 162-170	5.7	143
197	Significant Roles of Intrinsic Point Defects in Mg ₂ X (X = Si, Ge, Sn) Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500284	6.4	58
196	Multiple Converged Conduction Bands in KBiSe: A Promising Thermoelectric Material with Extremely Low Thermal Conductivity. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16364-16371	16.4	95
195	Attaining high mid-temperature performance in (Bi,Sb) ₂ Te ₃ thermoelectric materials via synergistic optimization. <i>NPG Asia Materials</i> , 2016 , 8, e302-e302	10.3	96
194	The effect of texture degree on the anisotropic thermoelectric properties of (Bi,Sb) ₂ (Te,Se) ₃ based solid solutions. <i>RSC Advances</i> , 2016 , 6, 98646-98651	3.7	15
193	Enhancing the Figure of Merit of Heavy-Band Thermoelectric Materials Through Hierarchical Phonon Scattering. <i>Advanced Science</i> , 2016 , 3, 1600035	13.6	106
192	New Insights into Intrinsic Point Defects in VVI Thermoelectric Materials. <i>Advanced Science</i> , 2016 , 3, 1600004	19.6	218
191	Au-nanocrystals-decorated γ -MnO ₂ as an efficient catalytic cathode for high-performance Li-O ₂ batteries. <i>Nanoscale</i> , 2015 , 7, 9589-96	7.7	31
190	Demonstration of a phonon-glass electron-crystal strategy in (Hf,Zr)NiSn half-Heusler thermoelectric materials by alloying. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22716-22722	13	101
189	Facile solvothermal synthesis of ultrathin LiFe _x Mn _{1-x} PO ₄ nanoplates as advanced cathodes with long cycle life and superior rate capability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19368-19375	13	28
188	High performance n-type bismuth telluride based alloys for mid-temperature power generation. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10597-10603	7.1	48
187	Realizing high figure of merit in heavy-band p-type half-Heusler thermoelectric materials. <i>Nature Communications</i> , 2015 , 6, 8144	17.4	658
186	Enhanced figure of merit in antimony telluride thermoelectric materials by In-Ag co-alloying for mid-temperature power generation. <i>Acta Materialia</i> , 2015 , 85, 270-278	8.4	59
185	Enhanced thermoelectric and mechanical properties of zone melted p-type (Bi,Sb) ₂ Te ₃ thermoelectric materials by hot deformation. <i>Acta Materialia</i> , 2015 , 84, 385-392	8.4	90
184	Band engineering of high performance p-type FeNbSb based half-Heusler thermoelectric materials for figure of merit $zT > 1$. <i>Energy and Environmental Science</i> , 2015 , 8, 216-220	35.4	368

183	Reduced lattice thermal conductivity in nanograined Na-doped PbTe alloys by ball milling and semisolid powder processing. <i>Materials Letters</i> , 2015 , 140, 103-106	3.3	11
182	Influence of Sb doping on thermoelectric properties of Mg ₂ Ge materials. <i>Intermetallics</i> , 2015 , 56, 33-36	3.5	14
181	Reliable measurements of the Seebeck coefficient on a commercial system. <i>Journal of Materials Research</i> , 2015 , 30, 2670-2677	2.5	6
180	Microstructure and thermoelectric properties of porous Bi ₂ Te _{2.85} Se _{0.15} bulk materials fabricated by semisolid powder processing. <i>Journal of Materials Research</i> , 2015 , 30, 2585-2592	2.5	11
179	First-principles studies of lattice dynamics and thermal properties of Mg ₂ Si _{1-x} Sn _x . <i>Journal of Materials Research</i> , 2015 , 30, 2578-2584	2.5	9
178	High Efficiency Half-Heusler Thermoelectric Materials for Energy Harvesting. <i>Advanced Energy Materials</i> , 2015 , 5, 1500588	21.8	279
177	Tuning Multiscale Microstructures to Enhance Thermoelectric Performance of n-Type Bismuth-Telluride-Based Solid Solutions. <i>Advanced Energy Materials</i> , 2015 , 5, 1500411	21.8	287
176	Thermal Error Modeling Method for a CNC Machine Tool Feed Drive System. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-6	1.1	4
175	Effects of Graphene Oxide Function Groups on SnO ₂ /Graphene Nanocomposites for Lithium Storage Application. <i>Electrochimica Acta</i> , 2015 , 154, 338-344	6.7	33
174	Mushroom-like Au/NiCo ₂ O ₄ nanohybrids as high-performance binder-free catalytic cathodes for lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5714-5721	13	47
173	High Performance MgAgSb Thermoelectric Materials for Low Temperature Power Generation. <i>Chemistry of Materials</i> , 2015 , 27, 909-913	9.6	98
172	The intrinsic disorder related alloy scattering in ZrNiSn half-Heusler thermoelectric materials. <i>Scientific Reports</i> , 2014 , 4, 6888	4.9	161
171	Lofting the Seebeck coefficient and lattice thermal conductivity reduction of high performance (AgSbTe) ₁₅ (GeTe) ₈₅ thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3251-3256	13	52
170	Direct Growth of Flower-Like MnO ₂ on Three-Dimensional Graphene for High-Performance Rechargeable Li-O ₂ Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1301960	21.8	139
169	Shifting up the optimum figure of merit of p-type bismuth telluride-based thermoelectric materials for power generation by suppressing intrinsic conduction. <i>NPG Asia Materials</i> , 2014 , 6, e88-e88	10.3	234
168	High Performance Mg ₂ (Si,Sn) Solid Solutions: a Point Defect Chemistry Approach to Enhancing Thermoelectric Properties. <i>Advanced Functional Materials</i> , 2014 , 24, 3776-3781	15.6	117
167	Synergetic effect of Zn substitution on the electron and phonon transport in Mg ₂ Si _{0.5} Sn _{0.5} -based thermoelectric materials. <i>Dalton Transactions</i> , 2014 , 43, 14072-8	4.3	9
166	One-pot synthesis of ultrafine ZnFe ₂ O ₄ nanocrystals anchored on graphene for high-performance Li and Li-ion batteries. <i>RSC Advances</i> , 2014 , 4, 7703	3.7	39

165	Nitrogen-doped reduced graphene oxide for high-performance flexible all-solid-state micro-supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18125-18131	13	128
164	Reduced graphene oxide-induced recrystallization of NiS nanorods to nanosheets and the improved Na-storage properties. <i>Inorganic Chemistry</i> , 2014 , 53, 3511-8	5.1	77
163	High Band Degeneracy Contributes to High Thermoelectric Performance in p-Type Half-Heusler Compounds. <i>Advanced Energy Materials</i> , 2014 , 4, 1400600	21.8	198
162	Understanding Li-storage mechanism and performance of MnFe ₂ O ₄ by in situ TEM observation on its electrochemical process in nano lithium battery. <i>Nano Energy</i> , 2014 , 8, 84-94	17.1	77
161	Activation of electrochemical lithium and sodium storage of nanocrystalline antimony by anchoring on graphene via a facile in situ solvothermal route. <i>Journal of Power Sources</i> , 2014 , 247, 204-212	8.9	63
160	Point Defect Engineering of High-Performance Bismuth-Telluride-Based Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2014 , 24, 5211-5218	15.6	469
159	Low-resistivity bulk silicon prepared by hot-pressing boron- and phosphorus-hyperdoped silicon nanocrystals. <i>AIP Advances</i> , 2014 , 4, 127108	1.5	5
158	White matter changes linked to visual recovery after nerve decompression. <i>Science Translational Medicine</i> , 2014 , 6, 266ra173	17.5	16
157	Self-templating synthesis of single crystalline LiNi _{0.5} Mn _{1.5} O ₄ nanotubes with improved electrochemical performance. <i>Functional Materials Letters</i> , 2014 , 07, 1450009	1.2	8
156	Variations of thermoelectric properties of Mg ₂ Si _{1-x} Sn _x Sb _{0.013} materials with different Si/Sn ratios. <i>Journal of Solid State Chemistry</i> , 2014 , 220, 157-162	3.3	5
155	In situ TEM characterization of single PbSe/reduced-graphene-oxide nanosheet and the correlation with its electrochemical lithium storage performance. <i>Nano Energy</i> , 2014 , 5, 122-131	17.1	37
154	Enhanced thermoelectric performance of n-type PbTe bulk materials fabricated by semisolid powder processing. <i>Journal of Alloys and Compounds</i> , 2014 , 609, 201-205	5.7	17
153	Electrochemical performance of LiMn ₂ O ₄ microcubes prepared by a self-templating route. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 2589-2594	2.6	7
152	Controllable synthesis of hollow Fe ₂ O ₃ nanostructures, their growth mechanism, and the morphology-reserved conversion to magnetic Fe ₃ O ₄ /C nanocomposites. <i>RSC Advances</i> , 2013 , 3, 19097	3.7	11
151	Design and synthesis of NiO nanoflakes/graphene nanocomposite as high performance electrodes of pseudocapacitor. <i>RSC Advances</i> , 2013 , 3, 19409	3.7	49
150	Facile one-pot synthesis of ultrathin NiS nanosheets anchored on graphene and the improved electrochemical Li-storage properties. <i>RSC Advances</i> , 2013 , 3, 3899	3.7	73
149	Facile synthesis of ultrafine CoSn ₂ nanocrystals anchored on graphene by one-pot route and the improved electrochemical Li-storage properties. <i>New Journal of Chemistry</i> , 2013 , 37, 474-480	3.6	29
148	Hot deformation induced bulk nanostructuring of unidirectionally grown p-type (Bi,Sb) ₂ Te ₃ thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11589	13	86

147	Thermoelectric properties of Sb-doped Mg ₂ Si _{0.59} Sn _{0.41} solid solutions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 2359-2363	1.6	4
146	LiMn ₂ O ₄ microspheres secondary structure of nanoparticles/plates as cathodes for Li-ion batteries. <i>Journal of Materials Research</i> , 2013 , 28, 1343-1348	2.5	6
145	Thermoelectric properties of FeVSb half-Heusler compounds by levitation melting and spark plasma sintering. <i>Intermetallics</i> , 2013 , 32, 39-43	3.5	49
144	Improving p-type thermoelectric performance of Mg ₂ (Ge,Sn) compounds via solid solution and Ag doping. <i>Intermetallics</i> , 2013 , 32, 312-317	3.5	28
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9	Synthesis of Li _{1+x} V ₃ O ₈ by citrate sol-gel route at low temperature. <i>Journal of Alloys and Compounds</i> , 2005 , 403, 345-348	5.7	30
8	Influence of nitrogenizing and Al-doping on microstructures and thermoelectric properties of iron disilicide materials. <i>Intermetallics</i> , 2005 , 13, 704-709	3.5	18
7	Sonochemical synthesis of nanocrystalline Bi ₂ Te ₃ thermoelectric compounds. <i>Materials Letters</i> , 2005 , 59, 2886-2888	3.3	25
6	Thermoelectric properties of hydrothermally synthesized and hot pressed n-type Bi ₂ Te ₃ alloys with different contents of Te. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 117, 119-122	3.1	25
5	Hydrothermally synthesized and hot-pressed Bi ₂ (Te,Se) ₃ thermoelectric alloys. <i>Physica B: Condensed Matter</i> , 2005 , 364, 50-54	2.8	22
4	Preparation and Thermoelectric Properties of Melt-Spun Fe ₂ Si ₅ Based Alloys. <i>Materials Science Forum</i> , 2003 , 437-438, 471-474	0.4	3

- 3 Phase transition of FeSi₂ and Fe₂Si₅ based alloys prepared by melt spinning. *Journal of Materials Science Letters*, **2001**, 20, 1831-1833 9
- 2 Transport properties of rapid solidified Fe₅₁Mn₁₄Cu thermoelectric alloys. *Journal of Alloys and Compounds*, **2000**, 306, 303-306 5-7 16
- 1 Carrier Grain Boundary Scattering in Thermoelectric Materials. *Energy and Environmental Science*, 35-4 10