

Xin-Bing Zhao

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.

193
papers

11,976
citations

54
h-index

106
g-index

198
ext. papers

13,744
ext. citations

8.2
avg, IF

6.63
L-index

#	Paper	IF	Citations
193	Low Interfacial Resistivity in CoSi ₂ /ZrCoSb Thermoelectric Junctions. <i>Materials Today Energy</i> , 2022 , 100960		1
192	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
191	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	1.6	4
190	Half-Heusler thermoelectric materials. <i>Applied Physics Letters</i> , 2021 , 118, 140503	3.4	13
189	Low-cost and scalable preparation of nano-Si from photovoltaic waste silicon for high-performance Li-ion battery anode. <i>Functional Materials Letters</i> , 2021 , 14, 2151033	1.2	2
188	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
187	Long-life Na-rich nickel hexacyanoferrate capable of working under stringent conditions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 21228-21240	13	4
186	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
185	Demonstration of valley anisotropy utilized to enhance the thermoelectric power factor. <i>Nature Communications</i> , 2021 , 12, 5408	17.4	17
184	Scale-up processing of a safe quasi-solid-state lithium battery by cathode-supported solid electrolyte coating. <i>Materials Today Energy</i> , 2021 , 21, 100841	7	3
183	Half-Heusler Thermoelectric Module with High Conversion Efficiency and High Power Density. <i>Advanced Energy Materials</i> , 2020 , 10, 2000888	21.8	40
182	Enhanced thermoelectric performance of Bi ₂ Se ₃ /TiO ₂ composite. <i>Rare Metals</i> , 2020 , 39, 887-894	5.5	16
181	Tiny amounts of fluorinated carbon nanotubes remove sodium dendrites for high-performance sodium-oxygen batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4108-4116	5.8	2
180	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
179	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
178	Stable cycling of a Prussian blue-based Na/Zn hybrid battery in aqueous electrolyte with a wide electrochemical window. <i>New Journal of Chemistry</i> , 2020 , 44, 4639-4646	3.6	14
177	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

176	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
175	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
174	Controlled synthesis of nanosized Si by magnesiothermic reduction from diatomite as anode material for Li-ion batteries. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020 , 27, 515-525	2.1	17
173	High-Performance MgSb Bi Thermoelectrics: Progress and Perspective. <i>Research</i> , 2020 , 2020, 1934848	7.8	30
172	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
171	Trace fluorinated-carbon-nanotube-induced lithium dendrite elimination for high-performance lithium-oxygen cells. <i>Nanoscale</i> , 2020 , 12, 3424-3434	7.7	6
170	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
169	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
168	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
167	Lithiated carbon cloth as a dendrite-free anode for high-performance lithium batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5773-5782	5.8	2
166	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
165	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
164	Architecture-independent reactivity tuning of Ni/Al multilayers by solid solution alloying. <i>Applied Physics Letters</i> , 2019 , 114, 183102	3.4	6
163	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
162	Short-range order in defective half-Heusler thermoelectric crystals. <i>Energy and Environmental Science</i> , 2019 , 12, 1568-1574	35.4	51
161	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
160	Superamphiphobic Porous Structure: Design and Implementation. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801973	4.6	3
159	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

158	Multiscale Defects as Strong Phonon Scatters to Enhance Thermoelectric Performance in Mg ₂ Sn _{1-x} Sb _x Solid Solutions. <i>Small Methods</i> , 2019 , 3, 1900412	12.8	6
157	Potassium manganese hexacyanoferrate/graphene as a high-performance cathode for potassium-ion batteries. <i>New Journal of Chemistry</i> , 2019 , 43, 11618-11625	3.6	29
156	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
155	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
154	Valleytronics in thermoelectric materials. <i>Npj Quantum Materials</i> , 2018 , 3,	5	67
153	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
152	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
151	Synthesis and thermoelectric properties of Rashba semiconductor BiTeBr with intensive texture. <i>Rare Metals</i> , 2018 , 37, 274-281	5.5	13
150	Carboxymethyl cellulose and composite films prepared by electrophoretic deposition and liquid-liquid particle extraction. <i>Colloid and Polymer Science</i> , 2018 , 296, 927-934	2.4	7
149	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
148	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
147	Biodegradable Magnesium Alloys Developed as Bone Repair Materials: A Review. <i>Scanning</i> , 2018 , 2018, 9216314	1.6	83
146	Unexpected Low-Temperature Performance of Li-O Cells with Inhibited Side Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25925-25929	9.5	4
145	Band Structures and Transport Properties of High-Performance Half-Heusler Thermoelectric Materials by First Principles. <i>Materials</i> , 2018 , 11,	3.5	25
144	Ionic liquid/ether-plasticized quasi-solid-state electrolytes for long-life lithium-oxygen cells. <i>New Journal of Chemistry</i> , 2018 , 42, 19521-19527	3.6	1
143	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
142	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
141	Manganese hexacyanoferrate/graphene cathodes for sodium-ion batteries with superior rate capability and ultralong cycle life. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2914-2920	6.8	12

140	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
139	NiCo ₂ O ₄ /MnO ₂ core/shell arrays as a binder-free catalytic cathode for high-performance lithium-oxygen cells. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1707-1713	6.8	16
138	Defect modulation on CaZn _{1-x} Ag _{1-x} Sb (0 < x < 1) Journal of Materials Chemistry A, 2018 , 6, 11773-11782	13	16
137	Preparation of silver/chemically reduced graphene composite for flexible printed circuits. <i>Micro and Nano Letters</i> , 2018 , 13, 576-579	0.9	1
136	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
135	Lanthanide Contraction as a Design Factor for High-Performance Half-Heusler Thermoelectric Materials. <i>Advanced Materials</i> , 2018 , 30, e1800881	24	66
134	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
133	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
132	Graphene-like MnO ₂ decorated with ultrafine CeO ₂ as a highly efficient catalyst for long-life lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6747-6755	13	38
131	Compromise and Synergy in High-Efficiency Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1605884	18.4	74.2
130	Defect control in Ca _{1-x} Ag _{1-x} Sb (0.15) through Nb doping. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1113-1119	6.8	2
129	In situ synthesis of silver/chemically reduced graphene nanocomposite and its use for low temperature conductive paste. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 7686-7691	2.1	9
128	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
127	Synthesis and liquid-liquid extraction of non-agglomerated Al(OH) ₃ particles for deposition of cellulose matrix composite films. <i>Journal of Colloid and Interface Science</i> , 2017 , 508, 49-55	9.3	10
126	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
125	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
124	Anisotropic thermoelectric properties of layered compound SnSe ₂ . <i>Science Bulletin</i> , 2017 , 62, 1663-1668	10.6	38
123	Elaborating the Crystal Structures of MgAgSb Thermoelectric Compound: Polymorphs and Atomic Disorders. <i>Chemistry of Materials</i> , 2017 , 29, 6378-6388	9.6	15

122	Modulating the resistivity of MoS ₂ through low energy phosphorus plasma implantation. <i>Applied Physics Letters</i> , 2017 , 110, 262102	3.4	12
121	Hierarchical Chemical Bonds Contributing to the Intrinsically Low Thermal Conductivity in BiMgAgSb Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2017 , 27, 1604145	15.6	154
120	Ni ₃ S ₂ nanosheet-anchored carbon submicron tube arrays as high-performance binder-free anodes for Na-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 131-138	6.8	17
119	Are Solid Solutions Better in FeNbSb-Based Thermoelectrics?. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600394	6.4	22
118	Au-Decorated Cracked Carbon Tube Arrays as Binder-Free Catalytic Cathode Enabling Guided Li ₂ O ₂ Inner Growth for High-Performance Li-O ₂ Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 7725-7732	15.6	40
117	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
116	Ru-decorated knitted Co ₃ O ₄ nanowires as a robust carbon/binder-free catalytic cathode for lithium-oxygen batteries. <i>New Journal of Chemistry</i> , 2016 , 40, 6812-6818	3.6	17
115	Scalable preparation of silicon@graphite/carbon microspheres as high-performance lithium-ion battery anode materials. <i>RSC Advances</i> , 2016 , 6, 69882-69888	3.7	26
114	Controlled Growth of LiO by Cocatalysis of Mobile Pd and CoO Nanowire Arrays for High-Performance Li-O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31653-31660	9.5	21
113	Enhanced thermoelectric performance of PbTe bulk materials with figure of merit zT >2 by multi-functional alloying. <i>Journal of Materials</i> , 2016 , 2, 141-149	6.7	89
112	Optimum Composition of CaO-SiO ₂ -Al ₂ O ₃ -MgO Slag for Spring Steel Deoxidized by Si and Mn in Production. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1435-1444	2.5	11
111	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
110	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
109	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
108	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
107	Enhancing the Figure of Merit of Heavy-Band Thermoelectric Materials Through Hierarchical Phonon Scattering. <i>Advanced Science</i> , 2016 , 3, 1600035	13.6	106
106	New Insights into Intrinsic Point Defects in VVI Thermoelectric Materials. <i>Advanced Science</i> , 2016 , 3, 1600064	9.04	218
105	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

104	Facile solvothermal synthesis of ultrathin $\text{LiFe}_x\text{Mn}_{1-x}\text{PO}_4$ 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
103	Understanding Moisture and Carbon Dioxide Involved Interfacial Reactions on Electrochemical Performance of Lithium-Air Batteries Catalyzed by Gold/Manganese-Dioxide. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23876-84	9.5	37
102	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
101	Realizing high figure of merit in heavy-band p-type half-Heusler thermoelectric materials. <i>Nature Communications</i> , 2015 , 6, 8144	17.4	658
100	Facile synthesis of nanostructured LiMnPO_4 as a high-performance cathode material with long cycle life and superior rate capability. <i>RSC Advances</i> , 2015 , 5, 99632-99639	3.7	8
99	Tips-Bundled $\text{Pt/Co}_3\text{O}_4$ Nanowires with Directed Peripheral Growth of Li_2O_2 as Efficient Binder/Carbon-Free Catalytic Cathode for Lithium-Oxygen Battery. <i>ACS Catalysis</i> , 2015 , 5, 241-245	13.1	63
98	Few-Layered SnS_2 on Few-Layered Reduced Graphene Oxide as Na-Ion Battery Anode with Ultralong Cycle Life and Superior Rate Capability. <i>Advanced Functional Materials</i> , 2015 , 25, 481-489	15.6	354
97	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
96	Reliable measurements of the Seebeck coefficient on a commercial system. <i>Journal of Materials Research</i> , 2015 , 30, 2670-2677	2.5	6
95	First-principles studies of lattice dynamics and thermal properties of $\text{Mg}_2\text{Si}_{1-x}\text{Sn}_x$. <i>Journal of Materials Research</i> , 2015 , 30, 2578-2584	2.5	9
94	High Efficiency Half-Heusler Thermoelectric Materials for Energy Harvesting. <i>Advanced Energy Materials</i> , 2015 , 5, 1500588	21.8	279
93	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
92	Mushroom-like $\text{Au/NiCo}_2\text{O}_4$ 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
91	High Performance MgAgSb Thermoelectric Materials for Low Temperature Power Generation. <i>Chemistry of Materials</i> , 2015 , 27, 909-913	9.6	98
90	The intrinsic disorder related alloy scattering in ZrNiSn half-Heusler thermoelectric materials. <i>Scientific Reports</i> , 2014 , 4, 6888	4.9	161
89	Ioffe-Regel limit and lattice thermal conductivity reduction of high performance $(\text{AgSbTe}_2)_{15}(\text{GeTe})_{85}$ thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3251-3256	13	52
88	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
87	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

86	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
85	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
84	Hollow nano silicon prepared by a controlled template direction and magnesiothermic reduction reaction as anode for lithium ion batteries. <i>New Journal of Chemistry</i> , 2014 , 38, 4177	3.6	7
83	From graphite oxide to nitrogen and sulfur co-doped few-layered graphene by a green reduction route via Chinese medicinal herbs. <i>RSC Advances</i> , 2014 , 4, 17902	3.7	23
82	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
81	Controllable synthesis of high-performance LiMnPO ₄ nanocrystals by a facile one-spot solvothermal process. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10581-10588	13	55
80	Ordered LiMPO ₄ (M = Fe, Mn) nanorods synthesized from NH ₄ MPO ₄ ·H ₂ O microplates by stress involved ion exchange for Li-ion batteries. <i>CrystEngComm</i> , 2014 , 16, 2239	3.3	12
79	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
78	Point Defect Engineering of High-Performance Bismuth-Telluride-Based Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2014 , 24, 5211-5218	15.6	469
77	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
76	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
75	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
74	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
73	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
72	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
71	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
70	Co(OH) ₂ /graphene sheet-on-sheet hybrid as high-performance electrochemical pseudocapacitor electrodes. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 1159-1165	2.6	21
69	Low Electron Scattering Potentials in High Performance Mg ₂ Si _{0.45} Sn _{0.55} Based Thermoelectric Solid Solutions with Band Convergence. <i>Advanced Energy Materials</i> , 2013 , 3, 1238-1244	21.8	186

68	Beneficial Contribution of Alloy Disorder to Electron and Phonon Transport in Half-Heusler Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2013 , 23, 5123-5130	15.6	290
67	Enhanced thermoelectric properties of p-type CoSb ₃ /graphene nanocomposite. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13111	13	89
66	Reduced graphene oxide induced confined growth of PbTe crystals and enhanced electrochemical Li-storage properties. <i>RSC Advances</i> , 2013 , 3, 23612	3.7	12
65	Microstructure and thermoelectric properties of InSb compound with nonsoluble NiSb in situ precipitates. <i>Journal of Materials Research</i> , 2013 , 28, 3394-3400	2.5	11
64	Electron and phonon transport in Co-doped FeV _{0.6} Nb _{0.4} Sb half-Heusler thermoelectric materials. <i>Journal of Applied Physics</i> , 2013 , 114, 134905	2.5	42
63	Hot deformation induced defects and performance enhancement in FeSb ₂ thermoelectric materials. <i>Journal of Applied Physics</i> , 2013 , 114, 184904	2.5	6
62	SnTe/AgSbTe ₂ Thermoelectric Alloys. <i>Advanced Energy Materials</i> , 2012 , 2, 58-62	21.8	65
61	Electrochemical performance of Li ₄ Ti ₅ O ₁₂ /carbon nanofibers composite prepared by an in situ route for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 3915-3921	2.6	16
60	Self-assembly of a ZnFe ₂ O ₄ /graphene hybrid and its application as a high-performance anode material for Li-ion batteries. <i>New Journal of Chemistry</i> , 2012 , 36, 2236	3.6	58
59	Roles of interstitial Mg in improving thermoelectric properties of Sb-doped Mg ₂ Si _{0.4} Sn _{0.6} solid solutions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6838		95
58	Electrochemical performance of TiO ₂ /carbon nanotubes nanocomposite prepared by an in situ route for Li-ion batteries. <i>Journal of Materials Research</i> , 2012 , 27, 417-423	2.5	10
57	Interrelation between atomic switching disorder and thermoelectric properties of ZrNiSn half-Heusler compounds. <i>CrystEngComm</i> , 2012 , 14, 4467	3.3	74
56	Flexible carbon nanotube papers with improved thermoelectric properties. <i>Energy and Environmental Science</i> , 2012 , 5, 5364-5369	35.4	143
55	Enhancement in thermoelectric performance of bismuth telluride based alloys by multi-scale microstructural effects. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16484		97
54	Fabrication and thermoelectric properties of Yb-doped ZrNiSn half-Heusler alloys. <i>International Journal of Smart and Nano Materials</i> , 2012 , 3, 64-71	3.6	13
53	Freestanding Co ₃ O ₄ nanowire array for high performance supercapacitors. <i>RSC Advances</i> , 2012 , 2, 1835	3.7	366
52	High performance half-Heusler thermoelectric materials with refined grains and nanoscale precipitates. <i>Journal of Materials Research</i> , 2012 , 27, 2457-2465	2.5	28
51	Self-assembly of a CoFe ₂ O ₄ /graphene sandwich by a controllable and general route: towards a high-performance anode for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19738		115

50	RAPID SYNTHESIS OF CoSb ₃ /GRAPHENE NANOCOMPOSITES BY ONE-POT SOLVOTHERMAL ROUTE AND THEIR ELECTROCHEMICAL PROPERTIES. <i>Functional Materials Letters</i> , 2012 , 05, 1250002	1.2	
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47	One-pot synthesis of Sb-Fe-carbon-fiber composites with in situ catalytic growth of carbon fibers. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012 , 19, 542-548	3.1	2
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