Tie-Jun Zhu

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#	Paper	IF	Citations
290	Compromise and Synergy in High-Efficiency Thermoelectric Materials. <i>Advanced Materials</i> , 2017 , 29, 16	50 <u>5</u> 884	742
289	Realizing high figure of merit in heavy-band p-type half-Heusler thermoelectric materials. <i>Nature Communications</i> , 2015 , 6, 8144	17.4	658
288	Point Defect Engineering of High-Performance Bismuth-Telluride-Based Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2014 , 24, 5211-5218	15.6	469
287	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
286	High-performance half-Heusler thermoelectric materials Hf1\(\mathbb{I}\) ZrxNiSn1\(\mathbb{J}\)Sby prepared by levitation melting and spark plasma sintering. <i>Acta Materialia</i> , 2009 , 57, 2757-2764	8.4	310
285	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
284	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
283	Single-Crystalline LiMn2O4 Nanotubes Synthesized Via Template-Engaged Reaction as Cathodes for High-Power Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2011 , 21, 348-355	15.6	283
282	High Efficiency Half-Heusler Thermoelectric Materials for Energy Harvesting. <i>Advanced Energy Materials</i> , 2015 , 5, 1500588	21.8	279
281	Syntheses and thermoelectric properties of Bi2Te3Bb2Te3 bulk nanocomposites with laminated nanostructure. <i>Applied Physics Letters</i> , 2008 , 92, 143106	3.4	246
280	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
279	High figures of merit and natural nanostructures in Mg2Si0.4Sn0.6 based thermoelectric materials. <i>Applied Physics Letters</i> , 2008 , 93, 102109	3.4	224
278	New Insights into Intrinsic Point Defects in VVI Thermoelectric Materials. <i>Advanced Science</i> , 2016 , 3, 16	50 0 9, 6 4	218
277	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
276	Low Electron Scattering Potentials in High Performance Mg2Si0.45Sn0.55 Based Thermoelectric Solid Solutions with Band Convergence. <i>Advanced Energy Materials</i> , 2013 , 3, 1238-1244	21.8	186
275	Self-assembly of CoS2/graphene nanoarchitecture by a facile one-pot route and its improved electrochemical Li-storage properties. <i>Nano Energy</i> , 2013 , 2, 49-56	17.1	182
274	Nanostructures in high-performance (GeTe)(x)(AgSbTe(2))(100-x) thermoelectric materials. <i>Nanotechnology</i> , 2008 , 19, 245707	3.4	177

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273	Enhanced Multiferroic Properties and Valence Effect of Ru-Doped BiFeO3 Thin Films. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6994-6998	3.8	162
272	The intrinsic disorder related alloy scattering in ZrNiSn half-Heusler thermoelectric materials. <i>Scientific Reports</i> , 2014 , 4, 6888	4.9	161
271	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
270	Recrystallization induced in situ nanostructures in bulk bismuth antimony tellurides: a simple top down route and improved thermoelectric properties. <i>Energy and Environmental Science</i> , 2010 , 3, 1519	35.4	153
269	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
268	Direct Growth of Flower-Like EMnO2 on Three-Dimensional Graphene for High-Performance Rechargeable Li-O2 Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1301960	21.8	139
267	Preferential c-axis orientation of ultrathin SnS2 nanoplates on graphene as high-performance anode for Li-ion batteries. <i>ACS Applied Materials & District M</i>	9.5	131
266	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
265	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
264	Coaxial MnO/C nanotubes as anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011 , 56, 5844-5848	6.7	127
263	High Performance Mg2(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
262	Self-assembly of a CoFe2O4/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
261	Nanocrystal manganese oxide (Mn3O4, MnO) anchored on graphite nanosheet with improved electrochemical Li-storage properties. <i>Electrochimica Acta</i> , 2012 , 66, 271-278	6.7	113
260	Improving thermoelectric properties of n-type bismuthEelluride-based alloys by deformation-induced lattice defects and texture enhancement. <i>Acta Materialia</i> , 2012 , 60, 4431-4437	8.4	111
259	Enhancing the Figure of Merit of Heavy-Band Thermoelectric Materials Through Hierarchical Phonon Scattering. <i>Advanced Science</i> , 2016 , 3, 1600035	13.6	106
258	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
257	High Performance ⊞MgAgSb Thermoelectric Materials for Low Temperature Power Generation. <i>Chemistry of Materials</i> , 2015 , 27, 909-913	9.6	98
256	The texture related anisotropy of thermoelectric properties in bismuth telluride based polycrystalline alloys. <i>Applied Physics Letters</i> , 2011 , 99, 124102	3.4	98

255	Enhancement in thermoelectric performance of bismuth telluride based alloys by multi-scale microstructural effects. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16484		97
254	Attaining high mid-temperature performance in (Bi,Sb)2Te3 thermoelectric materials via synergistic optimization. <i>NPG Asia Materials</i> , 2016 , 8, e302-e302	10.3	96
253	Roles of interstitial Mg in improving thermoelectric properties of Sb-doped Mg2Si0.4Sn0.6 solid solutions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6838		95
252	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
251	Double-shelled hollow microspheres of LiMn2O4 for high-performance lithium ion batteries. Journal of Materials Chemistry, 2011 , 21, 9475		92
250	Enhanced thermoelectric and mechanical properties of zone melted p-type (Bi,Sb)2Te3 thermoelectric materials by hot deformation. <i>Acta Materialia</i> , 2015 , 84, 385-392	8.4	90
249	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
248	Enhanced thermoelectric properties of p-type CoSb3/graphene nanocomposite. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13111	13	89
247	Enhanced Elevated-Temperature Performance of Al-Doped Single-Crystalline LiMn2O4 Nanotubes as Cathodes for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9821-9825	3.8	88
246	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
245	Hybrid Organic-Inorganic Thermoelectric Materials and Devices. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15206-15226	16.4	87
244	Hot deformation induced bulk nanostructuring of unidirectionally grown p-type (Bi,Sb)2Te3 thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11589	13	86
243	Flux synthesis and thermoelectric properties of eco-friendly Sb doped Mg2Si0.5Sn0.5 solid solutions for energy harvesting. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5933		86
242	Mg vacancy and dislocation strains as strong phonon scatterers in Mg 2 Si 1⊠ Sb x thermoelectric materials. <i>Nano Energy</i> , 2017 , 34, 428-436	17.1	85
241	MnO2/onion-like carbon nanocomposites for pseudocapacitors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17584		82
240	Enhanced Thermoelectric Performance in 18-Electron Nb0.8CoSb Half-Heusler Compound with Intrinsic Nb Vacancies. <i>Advanced Functional Materials</i> , 2018 , 28, 1705845	15.6	79
239	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
238	Understanding Li-storage mechanism and performance of MnFe2O4 by in situ TEM observation on its electrochemical process in nano lithium battery. <i>Nano Energy</i> , 2014 , 8, 84-94	17.1	77

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237	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	
236	Complex Band Structures and Lattice Dynamics of Bi2Te3-Based Compounds and Solid Solutions. <i>Advanced Functional Materials</i> , 2019 , 29, 1900677	15.6	74	
235	Interrelation between atomic switching disorder and thermoelectric properties of ZrNiSn half-Heusler compounds. <i>CrystEngComm</i> , 2012 , 14, 4467	3.3	74	
234	Enhanced low voltage cycling stability of LiMn2O4 cathode by ZnO coating for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2007 , 432, 313-317	5.7	74	
233	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	
232	Improved Thermoelectric Performance of Higher Manganese Silicides with Ge Additions. <i>Journal of Electronic Materials</i> , 2010 , 39, 2002-2007	1.9	73	
231	In situsynthesis and thermoelectric properties of La-doped Mg2(Si, Sn) composites. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 185103	3	71	
230	Enhanced phonon scattering by mass and strain field fluctuations in Nb substituted FeVSb half-Heusler thermoelectric materials. <i>Journal of Applied Physics</i> , 2012 , 112, 124915	2.5	69	
229	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	
228	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	
227	Valleytronics in thermoelectric materials. Npj Quantum Materials, 2018, 3,	5	67	
226	Lanthanide Contraction as a Design Factor for High-Performance Half-Heusler Thermoelectric Materials. <i>Advanced Materials</i> , 2018 , 30, e1800881	24	66	
225	SnTeAgSbTe2 Thermoelectric Alloys. <i>Advanced Energy Materials</i> , 2012 , 2, 58-62	21.8	65	
224	Thermoelectric properties of Gd, Y co-doped Ca3Co4O9+\(\Pi\)Current Applied Physics, 2009 , 9, 409-413	2.6	64	
223	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	
222	Enhanced figure of merit in antimony telluride thermoelectric materials by InAg co-alloying for mid-temperature power generation. <i>Acta Materialia</i> , 2015 , 85, 270-278	8.4	59	
221	Self-assembly of a ZnFe2O4/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	
220	Nanostructuring and improved performance of ternary BiBbIIe thermoelectric materials. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 321-324	2.6	58	

219	Significant Roles of Intrinsic Point Defects in Mg2X (X = Si, Ge, Sn) Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500284	6.4	58
218	Controllable Synthesis and Shape Evolution of PbTe Three-Dimensional Hierarchical Superstructures via an Alkaline Hydrothermal Method. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8085-	80 ⁸ 1	57
217	Improved thermoelectric figure of merit in n-type CoSb3 based nanocomposites. <i>Applied Physics Letters</i> , 2007 , 91, 172116	3.4	57
216	Facile synthesis of layered Zn2SnO4/graphene nanohybrid by a one-pot route and its application as high-performance anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2013 , 229, 6-11	8.9	56
215	Phase compositions, nanoscale microstructures and thermoelectric properties in Ag2\subseteqSbyTe1+y alloys with precipitated Sb2Te3 plates. <i>Acta Materialia</i> , 2010 , 58, 4160-4169	8.4	56
214	Synthesis and thermoelectric properties of Bi2Te3 based nanocomposites. <i>Journal of Alloys and Compounds</i> , 2005 , 397, 317-321	5.7	56
213	Enhancing Thermoelectric Performance of n-Type Hot Deformed Bismuth-Telluride-Based Solid Solutions by Nonstoichiometry-Mediated Intrinsic Point Defects. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 28577-28585	9.5	55
212	Ioffe R egel limit and lattice thermal conductivity reduction of high performance (AgSbTe2)15(GeTe)85 thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3251-3256	13	52
211	Enhanced cycling stability of LiMn2O4 by surface modification with melting impregnation method. <i>Electrochimica Acta</i> , 2006 , 51, 6456-6462	6.7	52
210	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-	6 <mark>8</mark>	51
209	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
208	Short-range order in defective half-Heusler thermoelectric crystals. <i>Energy and Environmental Science</i> , 2019 , 12, 1568-1574	35.4	51
207	Microstructure and thermoelectric properties of SiGe-added higher manganese silicides. <i>Materials Chemistry and Physics</i> , 2010 , 124, 1001-1005	4.4	51
206	Synthesis of PbTe thermoelectric materials by alkaline reducing chemical routes. <i>Materials Research Bulletin</i> , 2008 , 43, 2850-2854	5.1	50
205	Flower-like nanostructure and thermoelectric properties of hydrothermally synthesized La-containing Bi2Te3 based alloys. <i>Materials Chemistry and Physics</i> , 2007 , 103, 484-488	4.4	50
204	Aqueous chemical reduction synthesis of Bi2Te3 nanowires with surfactant assistance. <i>Materials Letters</i> , 2006 , 60, 2534-2537	3.3	50
203	Design and synthesis of NiO nanoflakes/graphene nanocomposite as high performance electrodes of pseudocapacitor. <i>RSC Advances</i> , 2013 , 3, 19409	3.7	49
202	Thermoelectric properties of FeVSb half-Heusler compounds by levitation melting and spark plasma sintering. <i>Intermetallics</i> , 2013 , 32, 39-43	3.5	49

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201	High performance n-type bismuth telluride based alloys for mid-temperature power generation. Journal of Materials Chemistry C, 2015 , 3, 10597-10603	7.1	48	
200	Reduced Grain Size and Improved Thermoelectric Properties of Melt Spun (Hf,Zr)NiSn Half-Heusler Alloys. <i>Journal of Electronic Materials</i> , 2010 , 39, 2008-2012	1.9	48	
199	Mushroom-like Au/NiCo2O4 nanohybrids as high-performance binder-free catalytic cathodes for lithiumBxygen batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5714-5721	13	47	
198	Improved thermoelectric properties of AgSbTe2 based compounds with nanoscale Ag2Te in situ precipitates. <i>Journal of Alloys and Compounds</i> , 2010 , 499, 215-220	5.7	47	
197	Thermoelectric performance of Mg2\(\mathbb{R}\)CaxSi compounds. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 9-12	5.7	46	
196	Microstructures and thermoelectric properties of GeSbTe based layered compounds. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 88, 425-428	2.6	45	
195	High performance p-type half-Heusler thermoelectric materials. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 113001	3	44	
194	Lattice thermal conductivity and spectral phonon scattering in FeVSb-based half-Heusler compounds. <i>Europhysics Letters</i> , 2013 , 104, 46003	1.6	44	
193	Solvothermal synthesis and electrical transport properties of skutterudite CoSb3. <i>Journal of Alloys and Compounds</i> , 2006 , 417, 269-272	5.7	43	
192	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	
191	Electron and phonon transport in Co-doped FeV0.6Nb0.4Sb half-Heusler thermoelectric materials. Journal of Applied Physics, 2013 , 114, 134905	2.5	42	
190	Improved performance of LiMn2O4 cathode materials for lithium ion batteries by gold coating. <i>Materials Letters</i> , 2006 , 60, 3251-3254	3.3	42	
189	Half-Heusler Thermoelectric Module with High Conversion Efficiency and High Power Density. <i>Advanced Energy Materials</i> , 2020 , 10, 2000888	21.8	40	
188	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	
187	One-pot synthesis of ultrafine ZnFe2O4 nanocrystals anchored on graphene for high-performance Li and Li-ion batteries. <i>RSC Advances</i> , 2014 , 4, 7703	3.7	39	
186	Anisotropic Growth of Cubic PbTe Nanoparticles to Nanosheets: Controlled Synthesis and Growth Mechanisms. <i>Crystal Growth and Design</i> , 2010 , 10, 3727-3731	3.5	39	
185	Anisotropic thermoelectric properties of layered compound SnSe2. Science Bulletin, 2017, 62, 1663-166	8 10.6	38	
184	How to Measure Thermoelectric Properties Reliably. <i>Joule</i> , 2018 , 2, 2183-2188	27.8	38	

183	Growth and transport properties of Mg3X2 (XI Sb, Bi) single crystals. <i>Materials Today Physics</i> , 2018 , 7, 61-68	8	38
182	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
181	Establishing the carrier scattering phase diagram for ZrNiSn-based half-Heusler thermoelectric materials. <i>Nature Communications</i> , 2020 , 11, 3142	17.4	37
180	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
179	Miscibility gap and thermoelectric properties of ecofriendly Mg2Si1⊠Snx (0.1 Æx Æ0.8) solid solutions by flux method. <i>Journal of Materials Research</i> , 2011 , 26, 3038-3043	2.5	36
178	Thermoelectric properties of nonstoichiometric PbTe prepared by HPHT. <i>Journal of Alloys and Compounds</i> , 2009 , 468, 410-413	5.7	36
177	Enhanced thermoelectric properties of Mg2Si0.58Sn0.42 compounds by Bi doping. <i>Materials Letters</i> , 2012 , 66, 76-78	3.3	35
176	Electrochemical performance of LiFe1NVxPO4/carbon composites prepared by solid-state reaction. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 385-389	5.7	35
175	Studies of cycleability of LiMn2O4 and LiLa0.01Mn1.99O4 as cathode materials for Li-ion battery. <i>Physica B: Condensed Matter</i> , 2006 , 382, 129-134	2.8	34
174	In-situ investigation and effect of additives on low temperature aqueous chemical synthesis of Bi2Te3 nanocapsules. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1621		34
173	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
172	Thermoelectric properties of Yb0.15Co4Sb12based nanocomposites with CoSb3nano-inclusion. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 205403	3	33
171	Facile synthesis of CEe3O4L corelined core and the application as a high-performance anode for Li-ion batteries. <i>RSC Advances</i> , 2013 , 3, 6787	3.7	32
170	Au-nanocrystals-decorated EMnO2 as an efficient catalytic cathode for high-performance Li-O2 batteries. <i>Nanoscale</i> , 2015 , 7, 9589-96	7.7	31
169	Synthesis of Nanocomposites with Improved Thermoelectric Properties. <i>Journal of Electronic Materials</i> , 2009 , 38, 1017-1024	1.9	31
168	Increased electrical conductivity in fine-grained (Zr,Hf)NiSn based thermoelectric materials with nanoscale precipitates. <i>Applied Physics Letters</i> , 2012 , 100, 254104	3.4	31
167	Thermal conductivity and specific heat of bulk amorphous chalcogenides Ge20Te80⊠Sex (x=0,1,2,8). <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 79-83	3.9	31
166	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

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165	Thermoelectric performance of p-type zone-melted Se-doped Bi0.5Sb1.5Te3 alloys. <i>Rare Metals</i> , 2018 , 37, 308-315	5.5	30
164	Composites of Higher Manganese Silicides and Nanostructured Secondary Phases and Their Thermoelectric Properties. <i>Journal of Electronic Materials</i> , 2009 , 38, 1072-1077	1.9	30
163	Synthesis of Li1+xV3O8 by citrate solgel route at low temperature. <i>Journal of Alloys and Compounds</i> , 2005 , 403, 345-348	5.7	30
162	Thermoelectric properties of perovskite-type oxide La1 \square SrxCoO3 (x = 0, 0.1) prepared by solid state reactions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 128, 174-178	3.1	30
161	High-Performance MgSb Bi Thermoelectrics: Progress and Perspective. <i>Research</i> , 2020 , 2020, 1934848	7.8	30
160	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
159	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
158	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
157	Facile synthesis of ultrafine CoSn2 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
156	Effect of Sb Doping on the Thermoelectric Properties of Mg2Si0.7Sn0.3 Solid Solutions. <i>Journal of Electronic Materials</i> , 2011 , 40, 830-834	1.9	29
155	Facile solvothermal synthesis of ultrathin LiFexMn1\(\text{MPO4} \) 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
154	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
153	Improving p-type thermoelectric performance of Mg2(Ge,Sn) compounds via solid solution and Ag doping. <i>Intermetallics</i> , 2013 , 32, 312-317	3.5	28
152	Improved Thermoelectric Properties in Lu-doped Yb\$_{14}\$MnSb\$_{11}\$ Zintl Compounds. <i>Applied Physics Express</i> , 2012 , 5, 031801	2.4	28
151	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
150	Improved Thermoelectric Performance of p-Type Bismuth Antimony Telluride Bulk Alloys Prepared by Hot Forging. <i>Journal of Electronic Materials</i> , 2011 , 40, 1095-1099	1.9	28
149	Nanosized La filled CoSb3 prepared by a solvothermal-annealing method. <i>Materials Letters</i> , 2008 , 62, 2363-2365	3.3	28
148	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

147	A Device-to-Material Strategy Guiding the Double-High Thermoelectric Module. Joule, 2020, 4, 2475-24	1 83 7.8	27
146	Evolution of the Intrinsic Point Defects in Bismuth Telluride-Based Thermoelectric Materials. <i>ACS Applied Materials & Defects</i> , 2019, 11, 41424-41431	9.5	26
145	Preparation and thermoelectric properties of bulkin situnanocomposites with amorphous/nanocrystal hybrid structure. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 6094-6097	3	26
144	Band Structures and Transport Properties of High-Performance Half-Heusler Thermoelectric Materials by First Principles. <i>Materials</i> , 2018 , 11,	3.5	25
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142	Thermoelectric properties of skutterudites FexNiyCo1 \square Sb3 (x = y). <i>Journal of Alloys and Compounds</i> , 2008 , 452, 225-229	5.7	25
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