Tie-Jun Zhu

List of Publications by Year
in descending order

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295 papers	19,580 citations	10373 72 h-index	14736 127 g-index
297 all docs	297 docs citations	297 times ranked	11824 citing authors

#	Article	IF	Citations
1	Compromise and Synergy in Highâ€Efficiency Thermoelectric Materials. Advanced Materials, 2017, 29, 1605884.	11.1	1,098
2	Realizing high figure of merit in heavy-band p-type half-Heusler thermoelectric materials. Nature Communications, 2015, 6, 8144.	5.8	893
3	Point Defect Engineering of Highâ€Performance Bismuthâ€Telluride†Based Thermoelectric Materials. Advanced Functional Materials, 2014, 24, 5211-5218.	7.8	619
4	Band engineering of high performance p-type FeNbSb based half-Heusler thermoelectric materials for figure of merit zT > 1. Energy and Environmental Science, 2015, 8, 216-220.	15.6	469
5	High Efficiency Halfâ€Heusler Thermoelectric Materials for Energy Harvesting. Advanced Energy Materials, 2015, 5, 1500588.	10.2	380
6	Tuning Multiscale Microstructures to Enhance Thermoelectric Performance of nâ€Type Bismuthâ€Telluride†Based Solid Solutions. Advanced Energy Materials, 2015, 5, 1500411.	10.2	379
7	High-performance half-Heusler thermoelectric materials Hf1â^'x ZrxNiSn1â^'ySby prepared by levitation melting and spark plasma sintering. Acta Materialia, 2009, 57, 2757-2764.	3.8	373
8	Beneficial Contribution of Alloy Disorder to Electron and Phonon Transport in Halfâ€Heusler Thermoelectric Materials. Advanced Functional Materials, 2013, 23, 5123-5130.	7.8	349
9	Single-Crystalline LiMn2O4 Nanotubes Synthesized Via Template-Engaged Reaction as Cathodes for High-Power Lithium Ion Batteries. Advanced Functional Materials, 2011, 21, 348-355.	7.8	327
10	New Insights into Intrinsic Point Defects in V₂VI₃ Thermoelectric Materials. Advanced Science, 2016, 3, 1600004.	5.6	317
11	Shifting up the optimum figure of merit of p-type bismuth telluride-based thermoelectric materials for power generation by suppressing intrinsic conduction. NPG Asia Materials, 2014, 6, e88-e88.	3.8	272
12	Syntheses and thermoelectric properties of Bi2Te3â•Sb2Te3 bulk nanocomposites with laminated nanostructure. Applied Physics Letters, 2008, 92, .	1.5	271
13	High Band Degeneracy Contributes to High Thermoelectric Performance in pâ€Type Halfâ€Heusler Compounds. Advanced Energy Materials, 2014, 4, 1400600.	10.2	261
14	High figures of merit and natural nanostructures in Mg2Si0.4Sn0.6 based thermoelectric materials. Applied Physics Letters, 2008, 93, .	1.5	240
15	Low Electron Scattering Potentials in High Performance Mg₂Si_{0.45}Sn_{0.55} Based Thermoelectric Solid Solutions with Band Convergence. Advanced Energy Materials, 2013, 3, 1238-1244.	10.2	220
16	The intrinsic disorder related alloy scattering in ZrNiSn half-Heusler thermoelectric materials. Scientific Reports, 2014, 4, 6888.	1.6	213
17	Self-assembly of CoS2/graphene nanoarchitecture by a facile one-pot route and its improved electrochemical Li-storage properties. Nano Energy, 2013, 2, 49-56.	8.2	205
18	Nanostructures in high-performance (GeTe)_x(AgSbTe₂)_{100â^'x}thermoelectric materials. Nanotechnology, 2008, 19, 245707.	1.3	197

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19	Hierarchical Chemical Bonds Contributing to the Intrinsically Low Thermal Conductivity in Î±â€MgAgSb Thermoelectric Materials. Advanced Functional Materials, 2017, 27, 1604145.	7.8	195
20	Enhanced Multiferroic Properties and Valence Effect of Ru-Doped BiFeO₃ Thin Films. Journal of Physical Chemistry C, 2010, 114, 6994-6998.	1.5	181
21	Unique Role of Refractory Ta Alloying in Enhancing the Figure of Merit of NbFeSb Thermoelectric Materials. Advanced Energy Materials, 2018, 8, 1701313.	10.2	181
22	Altered long non-coding RNA transcriptomic profiles in brain microvascular endothelium after cerebral ischemia. Experimental Neurology, 2016, 277, 162-170.	2.0	178
23	Recrystallization induced in situ nanostructures in bulk bismuth antimony tellurides: a simple top down route and improved thermoelectric properties. Energy and Environmental Science, 2010, 3, 1519.	15.6	174
24	Nitrogen-doped reduced graphene oxide for high-performance flexible all-solid-state micro-supercapacitors. Journal of Materials Chemistry A, 2014, 2, 18125-18131.	5.2	158
25	Direct Growth of Flowerâ€Like Î´â€MnO₂ on Threeâ€Dimensional Graphene for Highâ€Performance Rechargeable Liâ€O₂ Batteries. Advanced Energy Materials, 2014, 4, 1301960.	10.2	154
26	Preferential c-Axis Orientation of Ultrathin SnS₂ Nanoplates on Graphene as High-Performance Anode for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 1588-1595.	4.0	147
27	Enhancing the Figure of Merit of Heavyâ€Band Thermoelectric Materials Through Hierarchical Phonon Scattering. Advanced Science, 2016, 3, 1600035.	5.6	147
28	Carrier grain boundary scattering in thermoelectric materials. Energy and Environmental Science, 2022, 15, 1406-1422.	15.6	145
29	Improving thermoelectric properties of n-type bismuthâ€“telluride-based alloys by deformation-induced lattice defects and texture enhancement. Acta Materialia, 2012, 60, 4431-4437.	3.8	141
30	High Performance Mg₂(Si,Sn) Solid Solutions: a Point Defect Chemistry Approach to Enhancing Thermoelectric Properties. Advanced Functional Materials, 2014, 24, 3776-3781.	7.8	141
31	Hybrid Organicâ€“Inorganic Thermoelectric Materials and Devices. Angewandte Chemie - International Edition, 2019, 58, 15206-15226.	7.2	138
32	Demonstration of a phonon-glass electron-crystal strategy in (Hf,Zr)NiSn half-Heusler thermoelectric materials by alloying. Journal of Materials Chemistry A, 2015, 3, 22716-22722.	5.2	137
33	Complex Band Structures and Lattice Dynamics of Bi₂Te₃â€Based Compounds and Solid Solutions. Advanced Functional Materials, 2019, 29, 1900677.	7.8	135
34	High-efficiency half-Heusler thermoelectric modules enabled by self-propagating synthesis and topologic structure optimization. Energy and Environmental Science, 2019, 12, 3390-3399.	15.6	135
35	Multiple Converged Conduction Bands in K₂Bi₈Se₁₃: A Promising Thermoelectric Material with Extremely Low Thermal Conductivity. Journal of the American Chemical Society, 2016, 138, 16364-16371.	6.6	130
36	Coaxial MnO/C nanotubes as anodes for lithium-ion batteries. Electrochimica Acta, 2011, 56, 5844-5848.	2.6	129

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37	Li- and Mn-rich layered oxide cathode materials for lithium-ion batteries: a review from fundamentals to research progress and applications. Molecular Systems Design and Engineering, 2018, 3, 748-803.	1.7	127
38	Nanocrystal manganese oxide (Mn3O4, MnO) anchored on graphite nanosheet with improved electrochemical Li-storage properties. Electrochimica Acta, 2012, 66, 271-278.	2.6	125
39	High Performance Î±-MgAgSb Thermoelectric Materials for Low Temperature Power Generation. Chemistry of Materials, 2015, 27, 909-913.	3.2	124
40	Enhanced Thermoelectric Performance in 18â€Electron Nb_{0.8}CoSb Halfâ€Heusler Compound with Intrinsic Nb Vacancies. Advanced Functional Materials, 2018, 28, 1705845.	7.8	124
41	Self-assembly of a CoFe2O4/graphene sandwich by a controllable and general route: towards a high-performance anode for Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 19738.	6.7	122
42	Attaining high mid-temperature performance in (Bi,Sb)2Te3 thermoelectric materials via synergistic optimization. NPG Asia Materials, 2016, 8, e302-e302.	3.8	119
43	Enhanced thermoelectric performance of PbTe bulk materials with figure of merit zT >2 by multi-functional alloying. Journal of Materiomics, 2016, 2, 141-149.	2.8	118
44	Mg vacancy and dislocation strains as strong phonon scatterers in Mg 2 Si 1â^'x Sb x thermoelectric materials. Nano Energy, 2017, 34, 428-436.	8.2	116
45	The texture related anisotropy of thermoelectric properties in bismuth telluride based polycrystalline alloys. Applied Physics Letters, 2011, 99, .	1.5	111
46	Enhanced thermoelectric and mechanical properties of zone melted p-type (Bi,Sb)2Te3 thermoelectric materials by hot deformation. Acta Materialia, 2015, 84, 385-392.	3.8	111
47	Enhancement in thermoelectric performance of bismuth telluride based alloys by multi-scale microstructural effects. Journal of Materials Chemistry, 2012, 22, 16484.	6.7	110
48	Hot deformation induced bulk nanostructuring of unidirectionally grown p-type (Bi,Sb)2Te3 thermoelectric materials. Journal of Materials Chemistry A, 2013, 1, 11589.	5.2	110
49	Enhanced thermoelectric properties of p-type CoSb3/graphene nanocomposite. Journal of Materials Chemistry A, 2013, 1, 13111.	5.2	109
50	Enhanced Elevated-Temperature Performance of Al-Doped Single-Crystalline LiMn₂O₄ Nanotubes as Cathodes for Lithium Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 9821-9825.	1.5	107
51	Roles of interstitial Mg in improving thermoelectric properties of Sb-doped Mg2Si0.4Sn0.6 solid solutions. Journal of Materials Chemistry, 2012, 22, 6838.	6.7	107
52	A valence balanced rule for discovery of 18-electron half-Heuslers with defects. Energy and Environmental Science, 2018, 11, 1480-1488.	15.6	105
53	Valleytronics in thermoelectric materials. Npj Quantum Materials, 2018, 3, .	1.8	104
54	Lanthanide Contraction as a Design Factor for Highâ€Performance Halfâ€Heusler Thermoelectric Materials. Advanced Materials, 2018, 30, e1800881.	11.1	101

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55	Understanding Li-storage mechanism and performance of MnFe2O4 by in situ TEM observation on its electrochemical process in nano lithium battery. Nano Energy, 2014, 8, 84-94.	8.2	97
56	Flux synthesis and thermoelectric properties of eco-friendly Sb doped Mg2Si0.5Sn0.5 solid solutions for energy harvesting. Journal of Materials Chemistry, 2011, 21, 5933.	6.7	96
57	Double-shelled hollow microspheres of LiMn2O4 for high-performance lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 9475.	6.7	96
58	Reduced Graphene Oxide-Induced Recrystallization of NiS Nanorods to Nanosheets and the Improved Na-Storage Properties. Inorganic Chemistry, 2014, 53, 3511-3518.	1.9	95
59	MnO2/onion-like carbon nanocomposites for pseudocapacitors. Journal of Materials Chemistry, 2012, 22, 17584.	6.7	91
60	Grain Boundary Scattering of Charge Transport in nâ€Type (Hf,Zr)CoSb Halfâ€Heusler Thermoelectric Materials. Advanced Energy Materials, 2019, 9, 1803447.	10.2	88
61	Interrelation between atomic switching disorder and thermoelectric properties of ZrNiSn half-Heusler compounds. CrystEngComm, 2012, 14, 4467.	1.3	87
62	Establishing the carrier scattering phase diagram for ZrNiSn-based half-Heusler thermoelectric materials. Nature Communications, 2020, 11, 3142.	5.8	87
63	Enhanced low voltage cycling stability of LiMn2O4 cathode by ZnO coating for lithium ion batteries. Journal of Alloys and Compounds, 2007, 432, 313-317.	2.8	86
64	Short-range order in defective half-Heusler thermoelectric crystals. Energy and Environmental Science, 2019, 12, 1568-1574.	15.6	86
65	Improved Thermoelectric Performance of Higher Manganese Silicides with Ge Additions. Journal of Electronic Materials, 2010, 39, 2002-2007.	1.0	85
66	Halfâ€Heusler Thermoelectric Module with High Conversion Efficiency and High Power Density. Advanced Energy Materials, 2020, 10, 2000888.	10.2	85
67	Enhanced phonon scattering by mass and strain field fluctuations in Nb substituted FeVSb half-Heusler thermoelectric materials. Journal of Applied Physics, 2012, 112, .	1.1	82
68	In situsynthesis and thermoelectric properties of La-doped Mg2(Si, Sn) composites. Journal Physics D: Applied Physics, 2008, 41, 185103.	1.3	78
69	SnTeâ€“AgSbTe₂ Thermoelectric Alloys. Advanced Energy Materials, 2012, 2, 58-62.	10.2	78
70	Facile one-pot synthesis of ultrathin NiS nanosheets anchored on graphene and the improved electrochemical Li-storage properties. RSC Advances, 2013, 3, 3899.	1.7	78
71	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. Journal of Materials Chemistry A, 2018, 6, 3610-3624.	5.2	78
72	Enhancing room temperature thermoelectric performance of n -type polycrystalline bismuth-telluride-based alloys via Ag doping and hot deformation. Materials Today Physics, 2017, 2, 62-68.	2.9	76

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73	Enhanced figure of merit in antimony telluride thermoelectric materials by Inâ€“Ag co-alloying for mid-temperature power generation. Acta Materialia, 2015, 85, 270-278.	3.8	75
74	Significant Roles of Intrinsic Point Defects in Mg₂X (X = Si, Ge, Sn) Thermoelectric Materials. Advanced Electronic Materials, 2016, 2, 1500284.	2.6	75
75	Activation of electrochemical lithium and sodium storage of nanocrystalline antimony by anchoring on graphene via a facile in situ solvothermal route. Journal of Power Sources, 2014, 247, 204-212.	4.0	74
76	Enhancing Thermoelectric Performance of n-Type Hot Deformed Bismuth-Telluride-Based Solid Solutions by Nonstoichiometry-Mediated Intrinsic Point Defects. ACS Applied Materials & Interfaces, 2017, 9, 28577-28585.	4.0	71
77	Liquidâ€Phase Hot Deformation to Enhance Thermoelectric Performance of nâ€type Bismuthâ€Tellurideâ€Based Solid Solutions. Advanced Science, 2019, 6, 1901702.	5.6	71
78	Thermoelectric properties of Gd, Y co-doped Ca3Co4O9+Î´. Current Applied Physics, 2009, 9, 409-413.	1.1	67
79	Demonstration of valley anisotropy utilized to enhance the thermoelectric power factor. Nature Communications, 2021, 12, 5408.	5.8	66
80	High performance p-type half-Heusler thermoelectric materials. Journal Physics D: Applied Physics, 2018, 51, 113001.	1.3	65
81	How to Measure Thermoelectric Properties Reliably. Joule, 2018, 2, 2183-2188.	11.7	65
82	Ioffeâ€“Regel limit and lattice thermal conductivity reduction of high performance (AgSbTe₂)₁₅(GeTe)₈₅ thermoelectric materials. Journal of Materials Chemistry A, 2014, 2, 3251-3256.	5.2	64
83	High performance n-type bismuth telluride based alloys for mid-temperature power generation. Journal of Materials Chemistry C, 2015, 3, 10597-10603.	2.7	64
84	A Device-to-Material Strategy Guiding the â€œDouble-Highâ€•Thermoelectric Module. Joule, 2020, 4, 2475-2483.	11.7	64
85	Nanostructuring and improved performance of ternary Biâ€“Sbâ€“Te thermoelectric materials. Applied Physics A: Materials Science and Processing, 2008, 92, 321-324.	1.1	63
86	Phase compositions, nanoscale microstructures and thermoelectric properties in Ag2â^'ySbyTe1+y alloys with precipitated Sb2Te3 plates. Acta Materialia, 2010, 58, 4160-4169.	3.8	63
87	Facile synthesis of layered Zn2SnO4/graphene nanohybrid by a one-pot route and its application as high-performance anode for Li-ion batteries. Journal of Power Sources, 2013, 229, 6-11.	4.0	63
88	Transport mechanisms and property optimization of p-type (Zr, Hf)CoSb half-Heusler thermoelectric materials. Materials Today Physics, 2018, 7, 69-76.	2.9	63
89	High-Performance Mg ₃ Sb _{2- x} Bi _x Thermoelectrics: Progress and Perspective. Research, 2020, 2020, 1934848.	2.8	63
90	Improved thermoelectric figure of merit in n-type CoSb3 based nanocomposites. Applied Physics Letters, 2007, 91, .	1.5	62

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91	Self-assembly of a ZnFe2O4/graphene hybrid and its application as a high-performance anode material for Li-ion batteries. New Journal of Chemistry, 2012, 36, 2236.	1.4	62
92	Temperature Dependent nâ€Type Self Doping in Nominally 19â€Electron Halfâ€Heusler Thermoelectric Materials. Advanced Energy Materials, 2018, 8, 1801409.	10.2	62
93	Controllable Synthesis and Shape Evolution of PbTe Three-Dimensional Hierarchical Superstructures via an Alkaline Hydrothermal Method. Journal of Physical Chemistry C, 2009, 113, 8085-8091.	1.5	61
94	Thermoelectric properties of FeVSb half-Heusler compounds by levitation melting and spark plasma sintering. Intermetallics, 2013, 32, 39-43.	1.8	60
95	Anisotropic thermoelectric properties of layered compound SnSe 2. Science Bulletin, 2017, 62, 1663-1668.	4.3	60
96	Growth and transport properties of Mg3X2 (XÂ= Sb, Bi) single crystals. Materials Today Physics, 2018, 7, 61-68.	2.9	60
97	Half-Heusler thermoelectric materials. Applied Physics Letters, 2021, 118, .	1.5	60
98	Synthesis and thermoelectric properties of Bi2Te3 based nanocomposites. Journal of Alloys and Compounds, 2005, 397, 317-321.	2.8	59
99	Microstructure and thermoelectric properties of SiGe-added higher manganese silicides. Materials Chemistry and Physics, 2010, 124, 1001-1005.	2.0	59
100	Enhanced cycling stability of LiMn2O4 by surface modification with melting impregnation method. Electrochimica Acta, 2006, 51, 6456-6462.	2.6	58
101	Reduced Grain Size and Improved Thermoelectric Properties of Melt Spun (Hf,Zr)NiSn Half-Heusler Alloys. Journal of Electronic Materials, 2010, 39, 2008-2012.	1.0	58
102	Design and synthesis of NiO nanoflakes/graphene nanocomposite as high performance electrodes of pseudocapacitor. RSC Advances, 2013, 3, 19409.	1.7	58
103	Flower-like nanostructure and thermoelectric properties of hydrothermally synthesized La-containing Bi2Te3 based alloys. Materials Chemistry and Physics, 2007, 103, 484-488.	2.0	57
104	Improved thermoelectric properties of AgSbTe2 based compounds with nanoscale Ag2Te in situ precipitates. Journal of Alloys and Compounds, 2010, 499, 215-220.	2.8	55
105	Microstructures and thermoelectric properties of GeSbTe based layered compounds. Applied Physics A: Materials Science and Processing, 2007, 88, 425-428.	1.1	54
106	Electron and phonon transport in Co-doped FeV0.6Nb0.4Sb half-Heusler thermoelectric materials. Journal of Applied Physics, 2013, 114, 134905.	1.1	54
107	Lattice thermal conductivity and spectral phonon scattering in FeVSb-based half-Heusler compounds. Europhysics Letters, 2013, 104, 46003.	0.7	54
108	Synthesis of PbTe thermoelectric materials by alkaline reducing chemical routes. Materials Research Bulletin, 2008, 43, 2850-2854.	2.7	53

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109	Enhancing thermoelectric performance of FeNbSb half-Heusler compound by Hf-Ti dual-doping. Energy Storage Materials, 2018, 10, 69-74.	9.5	53
110	Evolution of the Intrinsic Point Defects in Bismuth Telluride-Based Thermoelectric Materials. ACS Applied Materials & Interfaces, 2019, 11, 41424-41431.	4.0	53
111	Approaching the minimum lattice thermal conductivity of p-type SnTe thermoelectric materials by Sb and Mg alloying. Science Bulletin, 2019, 64, 1024-1030.	4.3	53
112	Aqueous chemical reduction synthesis of Bi2Te3 nanowires with surfactant assistance. Materials Letters, 2006, 60, 2534-2537.	1.3	52
113	Medium Entropyâ€Enabled High Performance Cubic GeTe Thermoelectrics. Advanced Science, 2021, 8, 2100220.	5.6	51
114	Key properties of inorganic thermoelectric materialsâ€”tables (version 1). JPhys Energy, 2022, 4, 022002.	2.3	51
115	Thermoelectric performance of Mg2â^'xCaxSi compounds. Journal of Alloys and Compounds, 2008, 464, 9-12.	2.8	50
116	Solvothermal synthesis and electrical transport properties of skutterudite CoSb3. Journal of Alloys and Compounds, 2006, 417, 269-272.	2.8	49
117	Revealing the Intrinsic Electronic Structure of 3D Halfâ€Heusler Thermoelectric Materials by Angleâ€Resolved Photoemission Spectroscopy. Advanced Science, 2020, 7, 1902409.	5.6	49
118	Mushroom-like Au/NiCo₂O₄nanohybrids as high-performance binder-free catalytic cathodes for lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 5714-5721.	5.2	48
119	Tuning Optimum Temperature Range of Bi₂Te₃â€Based Thermoelectric Materials by Defect Engineering. Chemistry - an Asian Journal, 2020, 15, 2775-2792.	1.7	46
120	Improved performance of LiMn2O4 cathode materials for lithium ion batteries by gold coating. Materials Letters, 2006, 60, 3251-3254.	1.3	45
121	Anisotropic Growth of Cubic PbTe Nanoparticles to Nanosheets: Controlled Synthesis and Growth Mechanisms. Crystal Growth and Design, 2010, 10, 3727-3731.	1.4	44
122	Enhanced thermoelectric performance in the n-type NbFeSb half-Heusler compound with heavy element Ir doping. Materials Today Physics, 2019, 8, 62-70.	2.9	44
123	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. Journal of Materials Chemistry A, 2020, 8, 14822-14828.	5.2	44
124	Miscibility gap and thermoelectric properties of ecofriendly Mg₂Si_{1â^'x}Sn_x (0.1 â‰¤ x â‰¤ 0.8) solid solutions by flux method. Journal of Materials Research, 2011, 26, 3038-3043.	1.2	42
125	Band Structures and Transport Properties of High-Performance Half-Heusler Thermoelectric Materials by First Principles. Materials, 2018, 11, 847.	1.3	42
126	Thermoelectric properties of nonstoichiometric PbTe prepared by HPHT. Journal of Alloys and Compounds, 2009, 468, 410-413.	2.8	41

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127	One-pot synthesis of ultrafine ZnFe2O4 nanocrystals anchored on graphene for high-performance Li and Li-ion batteries. RSC Advances, 2014, 4, 7703.	1.7	41
128	The enhanced electrochemical response of Sr(Ti_{0.3}Fe_{0.7}Ru_{0.07})O_{3â^'Î´} anodes due to exsolved Ruâ€“Fe nanoparticles. Journal of Materials Chemistry A, 2018, 6, 5193-5201.	5.2	41
129	Enhanced thermoelectric properties of Mg2Si0.58Sn0.42 compounds by Bi doping. Materials Letters, 2012, 66, 76-78.	1.3	40
130	In situ TEM characterization of single PbSe/reduced-graphene-oxide nanosheet and the correlation with its electrochemical lithium storage performance. Nano Energy, 2014, 5, 122-131.	8.2	39
131	Enhanced thermoelectric performance of n-type bismuth-telluride-based alloys via In alloying and hot deformation for mid-temperature power generation. Journal of Materiomics, 2018, 4, 208-214.	2.8	39
132	Au-nanocrystals-decorated Î´-MnO₂as an efficient catalytic cathode for high-performance Liâ€“O₂batteries. Nanoscale, 2015, 7, 9589-9596.	2.8	38
133	The Role of Electronâ€“Phonon Interaction in Heavily Doped Fineâ€Grained Bulk Silicons as Thermoelectric Materials. Advanced Electronic Materials, 2016, 2, 1600171.	2.6	38
134	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. ACS Applied Materials & Interfaces, 2019, 11, 13397-13404.	4.0	38
135	In-situ investigation and effect of additives on low temperature aqueous chemical synthesis of Bi2Te3 nanocapsules. Journal of Materials Chemistry, 2005, 15, 1621.	6.7	37
136	Studies of cycleability of LiMn2O4 and LiLa0.01Mn1.99O4 as cathode materials for Li-ion battery. Physica B: Condensed Matter, 2006, 382, 129-134.	1.3	37
137	Electrochemical performance of LiFe1â^'xVxPO4/carbon composites prepared by solid-state reaction. Journal of Alloys and Compounds, 2008, 463, 385-389.	2.8	37
138	Low Contact Resistivity and Interfacial Behavior of p-Type NbFeSb/Mo Thermoelectric Junction. ACS Applied Materials & Interfaces, 2019, 11, 14182-14190.	4.0	37
139	Thermoelectric properties of Yb0.15Co4Sb12based nanocomposites with CoSb3nano-inclusion. Journal Physics D: Applied Physics, 2008, 41, 205403.	1.3	36
140	Thermoelectric performance of p-type zone-melted Se-doped Bi0.5Sb1.5Te3 alloys. Rare Metals, 2018, 37, 308-315.	3.6	36
141	Effect of Sb Doping on the Thermoelectric Properties of Mg2Si0.7Sn0.3 Solid Solutions. Journal of Electronic Materials, 2011, 40, 830-834.	1.0	35
142	Facile synthesis of Câ€“Fe3O4â€“C coreâ€“shell nanotubes by a self-templating route and the application as a high-performance anode for Li-ion batteries. RSC Advances, 2013, 3, 6787.	1.7	35
143	Facile solvothermal synthesis of ultrathin LiFe_xMn_{1â^'x}PO₄ nanoplates as advanced cathodes with long cycle life and superior rate capability. Journal of Materials Chemistry A, 2015, 3, 19368-19375.	5.2	35
144	Facile synthesis of ultrafine CoSn₂nanocrystals anchored on graphene by one-pot route and the improved electrochemical Li-storage properties. New Journal of Chemistry, 2013, 37, 474-480.	1.4	34

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145	Effects of Graphene Oxide Function Groups on SnO2/Graphene Nanocomposites for Lithium Storage Application. Electrochimica Acta, 2015, 154, 338-344.	2.6	34
146	Synthesis of Nanocomposites with Improved Thermoelectric Properties. Journal of Electronic Materials, 2009, 38, 1017-1024.	1.0	33
147	Composites of Higher Manganese Silicides and Nanostructured Secondary Phases and Their Thermoelectric Properties. Journal of Electronic Materials, 2009, 38, 1072-1077.	1.0	33
148	Thermal conductivity and specific heat of bulk amorphous chalcogenides Ge20Te80â^'xSex (x=0,1,2,8). Journal of Non-Crystalline Solids, 2009, 355, 79-83.	1.5	33
149	Improved Thermoelectric Performance of p-Type Bismuth Antimony Telluride Bulk Alloys Prepared by Hot Forging. Journal of Electronic Materials, 2011, 40, 1095-1099.	1.0	33
150	Enhanced thermoelectric performance of Bi2Se3/TiO2 composite. Rare Metals, 2020, 39, 887-894.	3.6	33
151	Thermoelectric properties of perovskite-type oxide La1â^'xSrxCoO3 (x=0, 0.1) prepared by solid state reactions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 128, 174-178.	1.7	32
152	Increased electrical conductivity in fine-grained (Zr,Hf)NiSn based thermoelectric materials with nanoscale precipitates. Applied Physics Letters, 2012, 100, .	1.5	32
153	Self-propagation high-temperature synthesis of half-Heusler thermoelectric materials: reaction mechanism and applicability. Journal of Materials Chemistry A, 2018, 6, 19470-19478.	5.2	32
154	Si/Ti3SiC2 composite anode with enhanced elastic modulus and high electronic conductivity for lithium-ion batteries. Journal of Power Sources, 2019, 431, 55-62.	4.0	32
155	Synthesis of Li1+xV3O8 by citrate solâ€“gel route at low temperature. Journal of Alloys and Compounds, 2005, 403, 345-348.	2.8	31
156	Fabrication and thermoelectric properties of perovskite-type oxide La1â^'xSrxCoO3 (x=0, 0.1). Journal of Alloys and Compounds, 2008, 449, 105-108.	2.8	31
157	Improved Thermoelectric Properties in Lu-doped Yb$_{14}$MnSb$_{11}$ Zintl Compounds. Applied Physics Express, 2012, 5, 031801.	1.1	31
158	Improving p-type thermoelectric performance of Mg2(Ge,Sn) compounds via solid solution and Ag doping. Intermetallics, 2013, 32, 312-317.	1.8	31
159	Preparation and thermoelectric properties of bulkin situnanocomposites with amorphous/nanocrystal hybrid structure. Journal Physics D: Applied Physics, 2007, 40, 6094-6097.	1.3	30
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