

Xin-Bing Zhao

List of Publications by Year in descending order

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198
papers

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19636
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198
all docs

198
docs citations

198
times ranked

11661
citing authors

#	ARTICLE	IF	CITATIONS
1	Compromise and Synergy in High-Efficiency Thermoelectric Materials. <i>Advanced Materials</i> , 2017, 29, 1605884.	11.1	1,098
2	Realizing high figure of merit in heavy-band p-type half-Heusler thermoelectric materials. <i>Nature Communications</i> , 2015, 6, 8144.	5.8	893
3	Self-supported hydrothermal synthesized hollow Co ₃ O ₄ nanowire arrays with high supercapacitor capacitance. <i>Journal of Materials Chemistry</i> , 2011, 21, 9319.	6.7	669
4	Point Defect Engineering of High-Performance Bismuth-Telluride-Based Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2014, 24, 5211-5218.	7.8	619
5	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.	15.6	469
6	Freestanding Co ₃ O ₄ nanowire array for high performance supercapacitors. <i>RSC Advances</i> , 2012, 2, 1835.	1.7	414
7	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.	7.8	391
8	High Efficiency Half-Heusler Thermoelectric Materials for Energy Harvesting. <i>Advanced Energy Materials</i> , 2015, 5, 1500588.	10.2	380
9	Tuning Multiscale Microstructures to Enhance Thermoelectric Performance of n-Type Bismuth-Telluride-Based Solid Solutions. <i>Advanced Energy Materials</i> , 2015, 5, 1500411.	10.2	379
10	High-performance half-Heusler thermoelectric materials Hf _{1-x} Zr _x NiSn _{1-y} Sb _y prepared by levitation melting and spark plasma sintering. <i>Acta Materialia</i> , 2009, 57, 2757-2764.	3.8	373
11	Beneficial Contribution of Alloy Disorder to Electron and Phonon Transport in Half-Heusler Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2013, 23, 5123-5130.	7.8	349
12	Single-Crystalline LiMn ₂ O ₄ Nanotubes Synthesized Via Template-Engaged Reaction as Cathodes for High-Power Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2011, 21, 348-355.	7.8	327
13	New Insights into Intrinsic Point Defects in V ₂ VI ₃ Thermoelectric Materials. <i>Advanced Science</i> , 2016, 3, 1600004.	5.6	317
14	Hierarchically porous NiO film grown by chemical bath deposition via a colloidal crystal template as an electrochemical pseudocapacitor material. <i>Journal of Materials Chemistry</i> , 2011, 21, 671-679.	6.7	282
15	Smallest Carbon Nanotube Is...in Diameter. <i>Physical Review Letters</i> , 2004, 92, 125502.	2.9	272
16	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.	3.8	272
17	High Band Degeneracy Contributes to High Thermoelectric Performance in p-Type Half-Heusler Compounds. <i>Advanced Energy Materials</i> , 2014, 4, 1400600.	10.2	261
18	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.	10.2	220

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19	The intrinsic disorder related alloy scattering in ZrNiSn half-Heusler thermoelectric materials. <i>Scientific Reports</i> , 2014, 4, 6888.	1.6	213
20	Hierarchical Chemical Bonds Contributing to the Intrinsically Low Thermal Conductivity in \pm -MgAgSb Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2017, 27, 1604145.	7.8	195
21	Unique Role of Refractory Ta Alloying in Enhancing the Figure of Merit of NbFeSb Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1701313.	10.2	181
22	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.	15.6	174
23	Flexible carbon nanotube papers with improved thermoelectric properties. <i>Energy and Environmental Science</i> , 2012, 5, 5364-5369.	15.6	164
24	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.	5.2	158
25	Direct Growth of Flower-Like MnO_2 on Three-Dimensional Graphene for High-Performance Rechargeable LiO_2 Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301960.	10.2	154
26	Enhancing the Figure of Merit of Heavy-Band Thermoelectric Materials Through Hierarchical Phonon Scattering. <i>Advanced Science</i> , 2016, 3, 1600035.	5.6	147
27	Carrier grain boundary scattering in thermoelectric materials. <i>Energy and Environmental Science</i> , 2022, 15, 1406-1422.	15.6	145
28	High Performance $\text{Mg}_2(\text{Si},\text{Sn})$ Solid Solutions: a Point Defect Chemistry Approach to Enhancing Thermoelectric Properties. <i>Advanced Functional Materials</i> , 2014, 24, 3776-3781.	7.8	141
29	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.	5.2	137
30	Complex Band Structures and Lattice Dynamics of Bi_2Te_3 -Based Compounds and Solid Solutions. <i>Advanced Functional Materials</i> , 2019, 29, 1900677.	7.8	135
31	Biodegradable Magnesium Alloys Developed as Bone Repair Materials: A Review. <i>Scanning</i> , 2018, 2018, 1-15.	0.7	134
32	Multiple Converged Conduction Bands in $\text{K}_2\text{Bi}_8\text{Se}_{13}$: A Promising Thermoelectric Material with Extremely Low Thermal Conductivity. <i>Journal of the American Chemical Society</i> , 2016, 138, 16364-16371.	6.6	130
33	High Performance \pm -MgAgSb Thermoelectric Materials for Low Temperature Power Generation. <i>Chemistry of Materials</i> , 2015, 27, 909-913.	3.2	124
34	Enhanced Thermoelectric Performance in 18-Electron $\text{Nb}_{0.8}\text{CoSb}$ Half-Heusler Compound with Intrinsic Nb Vacancies. <i>Advanced Functional Materials</i> , 2018, 28, 1705845.	7.8	124
35	Self-assembly of a CoFe_2O_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.	6.7	122
36	Attaining high mid-temperature performance in $(\text{Bi},\text{Sb})_2\text{Te}_3$ thermoelectric materials via synergistic optimization. <i>NPG Asia Materials</i> , 2016, 8, e302-e302.	3.8	119

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37	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.	2.8	118
38	Mg vacancy and dislocation strains as strong phonon scatterers in $Mg_{2-x}Si_xSb_x$ thermoelectric materials. <i>Nano Energy</i> , 2017, 34, 428-436.	8.2	116
39	Enhancement in thermoelectric performance of bismuth telluride based alloys by multi-scale microstructural effects. <i>Journal of Materials Chemistry</i> , 2012, 22, 16484.	6.7	110
40	Hot deformation induced bulk nanostructuring of unidirectionally grown p-type $(Bi,Sb)_2Te_3$ thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11589.	5.2	110
41	Enhanced thermoelectric properties of p-type $CoSb_3$ /graphene nanocomposite. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13111.	5.2	109
42	Roles of interstitial Mg in improving thermoelectric properties of Sb-doped $Mg_2Si_{0.4}Sn_{0.6}$ solid solutions. <i>Journal of Materials Chemistry</i> , 2012, 22, 6838.	6.7	107
43	Valleytronics in thermoelectric materials. <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	104
44	Lanthanide Contraction as a Design Factor for High-Performance Half-Heusler Thermoelectric Materials. <i>Advanced Materials</i> , 2018, 30, e1800881.	11.1	101
45	Flux synthesis and thermoelectric properties of eco-friendly Sb doped $Mg_2Si_{0.5}Sn_{0.5}$ solid solutions for energy harvesting. <i>Journal of Materials Chemistry</i> , 2011, 21, 5933.	6.7	96
46	Double-shelled hollow microspheres of $LiMn_2O_4$ for high-performance lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 9475.	6.7	96
47	Grain Boundary Scattering of Charge Transport in n-Type $(Hf,Zr)CoSb$ Half-Heusler Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2019, 9, 1803447.	10.2	88
48	Interrelation between atomic switching disorder and thermoelectric properties of $ZrNiSn$ half-Heusler compounds. <i>CrystEngComm</i> , 2012, 14, 4467.	1.3	87
49	Short-range order in defective half-Heusler thermoelectric crystals. <i>Energy and Environmental Science</i> , 2019, 12, 1568-1574.	15.6	86
50	Half-Heusler Thermoelectric Module with High Conversion Efficiency and High Power Density. <i>Advanced Energy Materials</i> , 2020, 10, 2000888.	10.2	85
51	$SnTe_{1-x}AgSbTe_x$ Thermoelectric Alloys. <i>Advanced Energy Materials</i> , 2012, 2, 58-62.	10.2	78
52	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.	1.7	78
53	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.	2.9	76
54	Significant Roles of Intrinsic Point Defects in $Mg_{2-x}X_x$ ($X = Si, Ge, Sn$) Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2016, 2, 1500284.	2.6	75

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55	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.	4.0	71
56	Liquid-Phase Hot Deformation to Enhance Thermoelectric Performance of n-Type Bismuth-Telluride-Based Solid Solutions. <i>Advanced Science</i> , 2019, 6, 1901702.	5.6	71
57	Tips-Bundled Pt/Co ₃ O ₄ Nanowires with Directed Peripheral Growth of Li ₂ O as Efficient Binder/Carbon-Free Catalytic Cathode for Lithium-Oxygen Battery. <i>ACS Catalysis</i> , 2015, 5, 241-245.	5.5	69
58	Demonstration of valley anisotropy utilized to enhance the thermoelectric power factor. <i>Nature Communications</i> , 2021, 12, 5408.	5.8	66
59	Off-Regel limit and lattice thermal conductivity reduction of high performance (AgSbTe) ₂ ₁₅ (GeTe) ₈₅ thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3251-3256.	5.2	64
60	High performance n-type bismuth telluride based alloys for mid-temperature power generation. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10597-10603.	2.7	64
61	Transport mechanisms and property optimization of p-type (Zr, Hf)CoSb half-Heusler thermoelectric materials. <i>Materials Today Physics</i> , 2018, 7, 69-76.	2.9	63
62	High-Performance Mg ₃ Sb _{2-x} Bi _x Thermoelectrics: Progress and Perspective. <i>Research</i> , 2020, 2020, 1934848.	2.8	63
63	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.	1.4	62
64	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, 8085-8091.	1.5	61
65	Anisotropic thermoelectric properties of layered compound SnSe 2. <i>Science Bulletin</i> , 2017, 62, 1663-1668.	4.3	60
66	Growth and transport properties of Mg ₃ X ₂ (X = Sb, Bi) single crystals. <i>Materials Today Physics</i> , 2018, 7, 61-68.	2.9	60
67	Half-Heusler thermoelectric materials. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	60
68	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.	1.0	58
69	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.	5.2	58
70	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.	1.1	54
71	Enhancing thermoelectric performance of FeNbSb half-Heusler compound by Hf-Ti dual-doping. <i>Energy Storage Materials</i> , 2018, 10, 69-74.	9.5	53
72	Evolution of the Intrinsic Point Defects in Bismuth Telluride-Based Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41424-41431.	4.0	53

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73	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.	4.3	53
74	Graphene-like γ -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.	5.2	51
75	Revealing the Intrinsic Electronic Structure of 3D Half-Heusler Thermoelectric Materials by Angle-Resolved Photoemission Spectroscopy. <i>Advanced Science</i> , 2020, 7, 1902409.	5.6	49
76	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.	5.2	48
77	Potassium manganese hexacyanoferrate/graphene as a high-performance cathode for potassium-ion batteries. <i>New Journal of Chemistry</i> , 2019, 43, 11618-11625.	1.4	48
78	Tuning Optimum Temperature Range of Bi ₂ Te ₃ -Based Thermoelectric Materials by Defect Engineering. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2775-2792.	1.7	46
79	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.	7.8	45
80	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.	2.9	44
81	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14822-14828.	5.2	44
82	Miscibility gap and thermoelectric properties of ecofriendly Mg ₂ Si _{1-x} Sn _x (0.1 ≤ x ≤ 0.8) solid solutions by flux method. <i>Journal of Materials Research</i> , 2011, 26, 3038-3043.	1.2	42
83	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, 23876-23884.	4.0	42
84	Band Structures and Transport Properties of High-Performance Half-Heusler Thermoelectric Materials by First Principles. <i>Materials</i> , 2018, 11, 847.	1.3	42
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.	1.7	41
86	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.	2.8	39
87	The Role of Electron-Phonon Interaction in Heavily Doped Fine-Grained Bulk Silicons as Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2016, 2, 1600171.	2.6	38
88	Low Contact Resistivity and Interfacial Behavior of p-Type NbFeSb/Mo Thermoelectric Junction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14182-14190.	4.0	37
89	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.	3.6	36
90	Evolution of nanodomains during the electric-field-induced relaxor to normal ferroelectric phase transition in a Sc-doped Pb(Mg ₁₋₃ Nb ₂₋₃)O ₃ ceramic. <i>Journal of Applied Physics</i> , 2007, 102, 084101.	1.1	35

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91	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.	5.2	35
92	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.	1.4	34
93	Enhanced thermoelectric performance of $\text{Bi}_2\text{Se}_3/\text{TiO}_2$ composite. <i>Rare Metals</i> , 2020, 39, 887-894.	3.6	33
94	Self-Assembly of Bi_2Te_3 -Nanoplate/Graphene-Nanosheet Hybrid by One-Pot Route and Its Improved Li-Storage Properties. <i>Materials</i> , 2012, 5, 1275-1284.	1.3	32
95	Increased electrical conductivity in fine-grained (Zr,Hf)NiSn based thermoelectric materials with nanoscale precipitates. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	32
96	Scalable preparation of silicon@graphite/carbon microspheres as high-performance lithium-ion battery anode materials. <i>RSC Advances</i> , 2016, 6, 69882-69888.	1.7	32
97	High performance half-Heusler thermoelectric materials with refined grains and nanoscale precipitates. <i>Journal of Materials Research</i> , 2012, 27, 2457-2465.	1.2	29
98	Elaborating the Crystal Structures of MgAgSb Thermoelectric Compound: Polymorphs and Atomic Disorders. <i>Chemistry of Materials</i> , 2017, 29, 6378-6388.	3.2	29
99	Tunable Optimum Temperature Range of High-Performance Zone Melted Bismuth-Telluride-Based Solid Solutions. <i>Crystal Growth and Design</i> , 2018, 18, 4646-4652.	1.4	29
100	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.	1.7	28
101	Bulk Nanostructured Thermoelectric Materials: Preparation, Structure and Properties. <i>Journal of Electronic Materials</i> , 2010, 39, 1990-1995.	1.0	26
102	Oleic acid-assisted preparation of LiMnPO_4 and its improved electrochemical performance by Co doping. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1271-1277.	1.2	26
103	Controlled Growth of Li_2O_2 by Cocatalysis of Mobile Pd and Co_3O_4 Nanowire Arrays for High-Performance Li^+O_2 Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31653-31660.	4.0	26
104	$\text{Sr}_{14}\text{MgBi}_{11}$ ($x = \text{Ca, Sr, Eu}$): Magnesium Bismuth Based Zintl Phases as Potential Thermoelectric Materials. <i>Inorganic Chemistry</i> , 2017, 56, 10576-10583.	1.9	26
105	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.	5.2	26
106	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.	2.4	26
107	Are Solid Solutions Better in FeNbSb -Based Thermoelectrics?. <i>Advanced Electronic Materials</i> , 2016, 2, 1600394.	2.6	25
108	Structure, Magnetism, and Thermoelectric Properties of Magnesium-Containing Antimonide Zintl Phases $\text{Sr}_{14}\text{MgSb}_{11}$ and $\text{Eu}_{14}\text{MgSb}_{11}$. <i>Inorganic Chemistry</i> , 2017, 56, 1646-1654.	1.9	24

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109	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.	3.0	24
110	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.	1.4	24
111	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.	3.0	22
112	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.	1.2	21
113	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.	3.0	21
114	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.	2.9	21
115	Long-life Na-rich nickel hexacyanoferrate capable of working under stringent conditions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21228-21240.	5.2	21
116	Thermoelectric Properties and n- to p-Type Conversion of Co-Doped ZrNiSn-Based Half-Heusler Alloys. <i>Journal of Electronic Materials</i> , 2012, 41, 1826-1830.	1.0	20
117	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.	1.7	20
118	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.	1.4	20
119	Synthesis and thermoelectric properties of Rashba semiconductor BiTeBr with intensive texture. <i>Rare Metals</i> , 2018, 37, 274-281.	3.6	20
120	Defect modulation on CaZn _{1-x} Ag _{1-y} Sb (0 < i>x</i> < i> < i>y</i> < i> < i>Tj ETQq0 0 0 rgBT /Overlock Materials Chemistry A, 2018, 6, 11773-11782.	5.2	20
121	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.	2.8	20
122	Fabrication and thermoelectric properties of Yb-doped ZrNiSn half-Heusler alloys. <i>International Journal of Smart and Nano Materials</i> , 2012, 3, 64-71.	2.0	19
123	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.	1.0	19
124	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.	2.9	19
125	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.	1.2	17
126	Mo-Fe/NbFeSb Thermoelectric Junctions: Anti-Thermal Aging Interface and Low Contact Resistivity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7317-7323.	4.0	17

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127	Microstructure and thermoelectric properties of InSb compound with nonsoluble NiSb in situ precipitates. <i>Journal of Materials Research</i> , 2013, 28, 3394-3400.	1.2	16
128	Multiscale Defects as Strong Phonon Scatters to Enhance Thermoelectric Performance in $\text{Mg}_{2-x}\text{Sn}_{1+x}\text{Sb}_x$ Solid Solutions. <i>Small Methods</i> , 2019, 3, 1900412.	4.6	16
129	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.	2.8	16
130	In situ transmission electron microscopy study of the nanodomain growth in a Sc-doped lead magnesium niobate ceramic. <i>Applied Physics Letters</i> , 2006, 89, 022904.	1.5	15
131	Modulating the resistivity of MoS ₂ through low energy phosphorus plasma implantation. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	15
132	High-Power-Density Wearable Thermoelectric Generators for Human Body Heat Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21224-21231.	4.0	15
133	Controllable synthesis of hollow Fe_2O_3 nanostructures, their growth mechanism, and the morphology-reserved conversion to magnetic $\text{Fe}_3\text{O}_4/\text{C}$ nanocomposites. <i>RSC Advances</i> , 2013, 3, 19097.	1.7	14
134	Trace fluorinated-carbon-nanotube-induced lithium dendrite elimination for high-performance lithium-oxygen cells. <i>Nanoscale</i> , 2020, 12, 3424-3434.	2.8	14
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