

Zhao-Yin Wen

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.

254
papers

10,286
citations

55
h-index

89
g-index

259
ext. papers

12,124
ext. citations

8.7
avg, IF

6.74
L-index

#	Paper	IF	Citations
254	In-situ constructed lithium-salt lithiophilic layer inducing bi-functional interphase for stable LLZO/Li interface. <i>Energy Storage Materials</i> , 2022 , 47, 61-69	19.4	8
253	Construction of hierarchical NiS@C/rGO heterostructures for enhanced sodium storage. <i>Chemical Engineering Journal</i> , 2022 , 435, 134633	14.7	3
252	A lithium-MXene composite anode with high specific capacity and low interfacial resistance for solid-state batteries. <i>Energy Storage Materials</i> , 2022 , 45, 934-940	19.4	4
251	A Janus Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ with high critical current density for high-voltage lithium batteries. <i>Chemical Engineering Journal</i> , 2022 , 429, 132506	14.7	3
250	In Situ Partial Pyrolysis of Sodium Carboxymethyl Cellulose Constructing Hierarchical Pores in the Silicon Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022 , 5, 380-386	6.1	1
249	Improvement of density and electrochemical performance of garnet-type Li ₇ La ₃ Zr ₂ O ₁₂ for solid-state lithium metal batteries enabled by W and Ta co-doping strategy. <i>Materials Today Energy</i> , 2022 , 101034	7	4
248	Understanding the influencing factors of porous cathode contributions to the impedance of a sodium-nickel chloride (ZEBRA) battery. <i>Functional Materials Letters</i> , 2021 , 14, 2141002	1.2	0
247	In-situ Alloyed Ni-Fe Co-Reaction Electrode for High-Stability and High-Rate Na-Metal Halide Batteries. <i>Materials Today Energy</i> , 2021 , 100894	7	0
246	Double-functional 3D cross-linking carbon fiber with Sn particle coating layer for improving interfacial performance of Na- η -Al ₂ O ₃ batteries. <i>Chemical Engineering Journal</i> , 2021 , 133545	14.7	0
245	Sulfonated Bacterial Cellulose-Based Functional Gel Polymer Electrolyte for Li ₂ O ₂ Batteries with Lil as a Redox Mediator. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 13883-13892	8.3	3
244	Design of solid-state sodium-ion batteries with high mass-loading cathode by porous-dense bilayer electrolyte. <i>Journal of Materiomics</i> , 2021 , 7, 1352-1352	6.7	1
243	In situ fabricated ceramic/polymer hybrid electrolyte with vertically aligned structure for solid-state lithium batteries. <i>Energy Storage Materials</i> , 2021 , 36, 171-178	19.4	17
242	A robust air electrode supported proton-conducting reversible solid oxide cells prepared by low temperature co-sintering. <i>Journal of Power Sources</i> , 2021 , 492, 229602	8.9	2
241	Microstructure boosting the cycling stability of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode through Zr-based dual modification. <i>Energy Storage Materials</i> , 2021 , 36, 179-185	19.4	13
240	Grain boundary modification in garnet electrolyte to suppress lithium dendrite growth. <i>Chemical Engineering Journal</i> , 2021 , 411, 128508	14.7	22
239	Hollow-Sphere-Structured NaFe(PO) ₂ (PO) ₂ /C as a Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25972-25980	9.5	5
238	Suppressing Redox Shuttle with MXene-Modified Separators for Li-O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30766-30775	9.5	7

237	Gallium-substituted Nasicon Na ₃ Zr ₂ Si ₂ PO ₁₂ solid electrolytes. <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157501	5.7	4
236	Constructing a charged-state Na-NiCl ₂ battery with NiCl ₂ /graphene aerogel composite as cathode. <i>Chemical Engineering Journal</i> , 2021 , 421, 127853	14.7	3
235	Achieving high critical current density in Ta-doped Li ₇ La ₃ Zr ₂ O ₁₂ /MgO composite electrolytes. <i>Journal of Alloys and Compounds</i> , 2021 , 856, 157222	5.7	6
234	Sustained Release-Driven Formation of Ultrastable SEI between Li ₆ PS ₅ Cl and Lithium Anode for Sulfide-Based Solid-State Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2002545	21.8	33
233	Electrochemical performance of NiCl ₂ with Br-free molten salt electrolyte in high power thermal batteries. <i>Science China Technological Sciences</i> , 2021 , 64, 91-97	3.5	7
232	A 3D Cross-Linking Lithiophilic and Electronically Insulating Interfacial Engineering for Garnet-Type Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2007815	15.6	38
231	Synthesis of Ga-doped Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte with high Li ⁺ ion conductivity. <i>Ceramics International</i> , 2021 , 47, 2123-2130	5.1	9
230	Anchoring succinonitrile by solvent-Li ⁺ associations for high-performance solid-state lithium battery. <i>Chemical Engineering Journal</i> , 2021 , 406, 126754	14.7	18
229	MOF/Poly(Ethylene Oxide) Composite Polymer Electrolyte for Solid-state Lithium Battery. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021 , 36, 332	1	4
228	A hydrogel-enabled free-standing polypyrrole cathode film for potassium ion batteries with high mass loading and low-temperature stability. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15045-15050	13	2
227	Synthesis and properties of poly(1,3-dioxolane) quasi-solid-state electrolytes a rare-earth triflate catalyst. <i>Chemical Communications</i> , 2021 , 57, 7934-7937	5.8	13
226	A facile method for the synthesis of a sintering dense nano-grained NaZrSiPO Na-ion solid-state electrolyte. <i>Chemical Communications</i> , 2021 , 57, 4023-4026	5.8	7
225	A rechargeable all-solid-state sodium peroxide (Na ₂ O ₂) battery with low overpotential. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 174005	3	2
224	Composite Hybrid Quasi-Solid Electrolyte for High-Energy Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7973-7982	6.1	9
223	Robust Conversion-Type Li/Garnet interphases from metal salt solutions. <i>Chemical Engineering Journal</i> , 2021 , 417, 129158	14.7	13
222	Submicrometer Rod-Structured Na ₇ V ₄ (P ₂ O ₇) ₄ (PO ₄)/C as a Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10298-10305	6.1	0
221	Spray drying derived wrinkled pea-shaped carbon-matrixed KVP ₂ O ₇ as a cathode material for potassium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 884, 161126	5.7	2
220	High-Rate and Long-Life Intermediate-Temperature Na-NiCl Battery with Dual-Functional Ni-Carbon Composite Nanofiber Network. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24767-24778	8.5	4

219	Ultrathin TiO ₂ surface layer coated TiN nanoparticles in freestanding film for high sulfur loading Li-S battery. <i>Chemical Engineering Journal</i> , 2020 , 399, 125674	14.7	14
218	Introducing a conductive pillar: a polyaniline intercalated layered titanate for high-rate and ultra-stable sodium and potassium ion storage. <i>Chemical Communications</i> , 2020 , 56, 8392-8395	5.8	11
217	Coupling solid and soluble catalysts toward stable Li anode for high-performance LiO ₂ batteries. <i>Energy Storage Materials</i> , 2020 , 28, 342-349	19.4	7
216	Improved electrochemical property of Ni-rich LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode via in-situ ZrO ₂ coating for high energy density lithium ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 389, 124403	14.7	53
215	Recent advances in anodic interface engineering for solid-state lithium-metal batteries. <i>Materials Horizons</i> , 2020 , 7, 1667-1696	14.4	34
214	Oximation reaction induced reduced graphene oxide gas sensor for formaldehyde detection. <i>Journal of Saudi Chemical Society</i> , 2020 , 24, 364-373	4.3	6
213	Preparation of Nanocomposite Polymer Electrolyte via In Situ Synthesis of SiO Nanoparticles in PEO. <i>Nanomaterials</i> , 2020 , 10,	5.4	11
212	FeNi-LDH Intercalation for Suppressing the Self-Discharge of the VB-Air Battery. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8219-8224	9.5	2
211	Anodic electrochemical mechanism and performance dominant factors of the VB ₂ -air battery. <i>Chemical Engineering Journal</i> , 2020 , 388, 124257	14.7	
210	Reversible AlCl ₄ ⁻ /Al ₂ Cl ₇ ⁻ conversion in a hybrid NaAl battery. <i>Journal of Power Sources</i> , 2020 , 453, 227843	8.9	4
209	In situ Lithiophilic ZnO Layer Constructed using Aqueous Strategy for a Stable Li-Garnet Interface. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 2009006-0	3.8	2
208	Realizing the growth of nano-network Li ₂ O ₂ film on defect-rich holey Co ₉ S ₈ nanosheets for Li-O ₂ battery. <i>Chemical Engineering Journal</i> , 2020 , 396, 125228	14.7	12
207	Multi-substituted garnet-type electrolytes for solid-state lithium batteries. <i>Ceramics International</i> , 2020 , 46, 5489-5494	5.1	8
206	Leakage behavior of toxic substances of naphthalene sulfonate-formaldehyde condensation from cement based materials. <i>Journal of Environmental Management</i> , 2020 , 255, 109934	7.9	44
205	LaNiLiO-Shielded Layered Cathode Materials for Emerging High-Performance Safe Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 826-835	9.5	8
204	Tailoring a micro-nanostructured electrolyte-oxygen electrode interface for proton-conducting reversible solid oxide cells. <i>Journal of Power Sources</i> , 2020 , 449, 227498	8.9	14
203	In Situ Conversion of Cu ₃ P Nanowires to Mixed Ion/Electron-Conducting Skeleton for Homogeneous Lithium Deposition. <i>Advanced Energy Materials</i> , 2020 , 10, 1902989	21.8	56
202	Cobalt Phosphide Nanoflake-Induced Flower-like Sulfur for High Redox Kinetics and Fast Ion Transfer in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49626-49635	9.5	22

201	Introducing a cell moisturizer: organogel nano-beads with rapid response to electrolytes for Prussian white analogue based non-aqueous potassium ion battery. <i>Chemical Communications</i> , 2020 , 56, 9719-9722	5.8	1
200	Ultrathin, dense, hybrid polymer/ceramic gel electrolyte for high energy lithium metal batteries. <i>Materials Letters</i> , 2020 , 279, 128480	3.3	3
199	A new high-capacity cathode for all-solid-state lithium sulfur battery. <i>Solid State Ionics</i> , 2020 , 357, 115500-3	9.3	10
198	Ultrathin, Compacted Gel Polymer Electrolytes Enable High-Energy and Stable-Cycling 4 V Lithium-Metal Batteries. <i>ChemElectroChem</i> , 2020 , 7, 3656-3662	4.3	4
197	Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ Ceramic Based Lithium-Sulfur Batteries with High Cycling Stability Enabled by a Dual Confinement Effect for Polysulfides. <i>ChemElectroChem</i> , 2020 , 7, 4093-4100	4.3	3
196	Ni-less cathode with 3D free-standing conductive network for planar Na-NiCl ₂ batteries. <i>Chemical Engineering Journal</i> , 2020 , 387, 124059	14.7	8
195	In Situ Lithiophilic Layer from H/Li Exchange on Garnet Surface for the Stable Lithium-Solid Electrolyte Interface. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35030-35038	9.5	42
194	Preparation of dense Ta-LLZO/MgO composite Li-ion solid electrolyte: Sintering, microstructure, performance and the role of MgO. <i>Journal of Energy Chemistry</i> , 2019 , 39, 8-16	12	44
193	Strain buffering effect of quasi-amorphous disordered microstructure enabling long-term fast sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 574-585	13	1
192	Manipulating Li ₂ O atmosphere for sintering dense Li ₇ La ₃ Zr ₂ O ₁₂ solid electrolyte. <i>Energy Storage Materials</i> , 2019 , 22, 207-217	19.4	51
191	Dual Substitution and Spark Plasma Sintering to Improve Ionic Conductivity of Garnet LiLaZrO. <i>Nanomaterials</i> , 2019 , 9,	5.4	7
190	Multiple Nanosheets Assembled Nanoflower-like MnO ₂ to Anchor Polysulfides for Improving Electrochemical Performance in Lithium Sulfur Batteries. <i>ChemistrySelect</i> , 2019 , 4, 7102-7107	1.8	2
189	A high-energy quinone-based all-solid-state sodium metal battery. <i>Nano Energy</i> , 2019 , 62, 718-724	17.1	37
188	In Situ Generated Fireproof Gel Polymer Electrolyte with Li _{6.4} Ga _{0.2} La ₃ Zr ₂ O ₁₂ As Initiator and Ion-Conductive Filler. <i>Advanced Energy Materials</i> , 2019 , 9, 1900611	21.8	102
187	Overcoming the abnormal grain growth in Ga-doped Li ₇ La ₃ Zr ₂ O ₁₂ to enhance the electrochemical stability against Li metal. <i>Ceramics International</i> , 2019 , 45, 14991-14996	5.1	42
186	Constructing dual interfacial modification by synergetic electronic and ionic conductors: Toward high-performance LAGP-Based Li-S batteries. <i>Energy Storage Materials</i> , 2019 , 23, 299-305	19.4	27
185	Towards improved structural stability and electrochemical properties of a Li-rich material by a strategy of double gradient surface modification. <i>Nano Energy</i> , 2019 , 61, 411-419	17.1	24
184	Acid induced conversion towards a robust and lithiophilic interface for Li ₇ La ₃ Zr ₂ O ₁₂ solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14565-14574	13	79

183	Composite Solid Polymer Electrolyte with Garnet Nanosheets in Poly(ethylene oxide). <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7163-7170	8.3	77
182	In situ formation of LiF decoration on a Li-rich material for long-cycle life and superb low-temperature performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11513-11519	13	35
181	Conformal, nanoscale γ -Al ₂ O ₃ coating of garnet conductors for solid-state lithium batteries. <i>Solid State Ionics</i> , 2019 , 342, 115063	3.3	8
180	ZnO nanoarray-modified nickel foam as a lithiophilic skeleton to regulate lithium deposition for lithium-metal batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7752-7759	13	77
179	From nanomelting to nanobeads: nanostructured Sb _x Bi _{1-x} alloys anchored in three-dimensional carbon frameworks as a high-performance anode for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27041-27047	13	32
178	Realization of the Li ⁺ domain diffusion effect via constructing molecular brushes on the LLZTO surface and its application in all-solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27304-27312	13	43
177	Highly Adhesive Li-BN Nanosheet Composite Anode with Excellent Interfacial Compatibility for Solid-State Li Metal Batteries. <i>ACS Nano</i> , 2019 , 13, 14549-14556	16.7	74
176	Sintering, micro-structure and Li ⁺ conductivity of Li ₇ La ₃ Zr ₂ NbO ₁₂ /MgO (x = 0.2-0.7) Li-Garnet composite ceramics. <i>Ceramics International</i> , 2019 , 45, 56-63	5.1	26
175	In situ synthesis of core-shell structured Ge@NC hybrids as high performance anode material for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 360, 1301-1309	14.7	27
174	Suppressing Self-Discharge of Vanadium Dioxide by Zwitterionicity of the Polydopamine Coating Layer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5123-5128	9.5	4
173	Nanoporous ceramic-poly(ethylene oxide) composite electrolyte for sodium metal battery. <i>Materials Letters</i> , 2019 , 236, 13-15	3.3	11
172	Searching for low-cost Li MO compounds for compensating Li-loss in sintering of Li-Garnet solid electrolyte. <i>Journal of Materiomics</i> , 2019 , 5, 221-228	6.7	10
171	Organic Polysulfides Based on β -SSE Structure as Additives or Cosolvents for High Performance Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2018 , 5, 1717-1723	4.3	10
170	Improving the electrochemical performance of Li-rich Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ by using Ni-Mn oxide surface modification. <i>Journal of Power Sources</i> , 2018 , 390, 13-19	8.9	34
169	Robust and Conductive Red MoSe ₂ for Stable and Fast Lithium Storage. <i>ACS Nano</i> , 2018 , 12, 4010-4018	16.7	42
168	Ionic activation via a hybrid ILSE interfacial layer for Li ₂ O ₂ batteries with 99.5% coulombic efficiency. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12945-12949	13	9
167	An ion-conductive Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ -based composite protective layer for lithium metal anode in lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2018 , 377, 36-43	8.9	37
166	Two-step sintering strategy to prepare dense Li-Garnet electrolyte ceramics with high Li ⁺ conductivity. <i>Ceramics International</i> , 2018 , 44, 5660-5667	5.1	57

165	Porous carbon-coated NaTi ₂ (PO ₄) ₃ with superior rate and low-temperature properties. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2365-2370	13	34
164	Method Using Water-Based Solvent to Prepare LiLaZrO Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17147-17155	9.5	49
163	Self-template construction of mesoporous silicon submicrocube anode for advanced lithium ion batteries. <i>Energy Storage Materials</i> , 2018 , 15, 139-147	19.4	46
162	Electrochemical performance and stability of cobalt-free Ln _{1.2} Sr _{0.8} NiO ₄ (Ln=La and Pr) air electrodes for proton-conducting reversible solid oxide cells. <i>Electrochimica Acta</i> , 2018 , 267, 269-277	6.7	51
161	Pre-modified Li ₃ PS ₄ based interphase for lithium anode towards high-performance Li-S battery. <i>Energy Storage Materials</i> , 2018 , 11, 16-23	19.4	96
160	Highly disordered hard carbon derived from skimmed cotton as a high-performance anode material for potassium-ion batteries. <i>Journal of Power Sources</i> , 2018 , 396, 533-541	8.9	84
159	High-performance phosphorus-modified SiO/C anode material for lithium ion batteries. <i>Ceramics International</i> , 2018 , 44, 18509-18515	5.1	23
158	High-Strength Internal Cross-Linking Bacterial Cellulose-Network-Based Gel Polymer Electrolyte for Dendrite-Suppressing and High-Rate Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17809-17819	9.5	84
157	Composites of Li-Al-B-Si-O glass and Al ₂ O ₃ for LTCC-silicon heterogeneous integration applications. <i>Ceramics International</i> , 2018 , 44, S141-S144	5.1	1
156	FeS Nanoparticles Anchored on Nitrogen-Doped Graphene Nanosheets as Anode Materials for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29476-29485	9.5	52
155	Enhancing the electrochemical performances of LiNi _{0.5} Mn _{1.5} O ₄ by Co ₃ O ₄ surface coating. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 163-170	5.7	16
154	Scalable synthesis of hierarchical porous Ge/rGO microspheres with an ultra-long cycling life for lithium storage. <i>Journal of Power Sources</i> , 2018 , 396, 124-133	8.9	35
153	Nanoporous Adsorption Effect on Alteration of the Li Diffusion Pathway by a Highly Ordered Porous Electrolyte Additive for High-Rate All-Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23874-23882	9.5	50
152	A novel thin solid electrolyte film and its application in all-solid-state battery at room temperature. <i>Ionics</i> , 2018 , 24, 1545-1551	2.7	15
151	Enhancing metallic lithium battery performance by tuning the electrolyte solution structure. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1612-1620	13	38
150	Metal-organic-framework-derived N-C-Co film as a shuttle-suppressing interlayer for lithium sulfur battery. <i>Chemical Engineering Journal</i> , 2018 , 334, 2356-2362	14.7	55
149	A Li-Garnet composite ceramic electrolyte and its solid-state Li-S battery. <i>Journal of Power Sources</i> , 2018 , 382, 190-197	8.9	79
148	Improving the rate and low-temperature performance of LiFePO ₄ by tailoring the form of carbon coating from amorphous to graphene-like. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 797-805	2.6	6

147	Lattice Incorporation of Cu into the BaCeZrYYbO Electrolyte on Boosting Its Sintering and Proton-Conducting Abilities for Reversible Solid Oxide Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42387-42396	9.5	24
146	Recent Progress in Liquid Electrolyte-Based LiB Batteries: Shuttle Problem and Solutions. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 599-624	29.3	33
145	Atomic-Thick TiO(B) Nanosheets Decorated with Ultrafine CoO Nanocrystals As a Highly Efficient Catalyst for Lithium-Oxygen Battery. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41398-41406	9.5	26
144	From Nature to Energy Storage: A Novel Sustainable 3D Cross-Linked Chitosan-PEGGE-Based Gel Polymer Electrolyte with Excellent Lithium-Ion Transport Properties for Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38526-38537	9.5	49
143	Effects of porous support microstructure enabled by the carbon microsphere pore former on the performance of proton-conducting reversible solid oxide cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20050-20058	6.7	18
142	Favorable lithium deposition behaviors on flexible carbon microtube skeleton enable a high-performance lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19159-19166	13	25
141	None-Mother-Powder Method to Prepare Dense Li-Garnet Solid Electrolytes with High Critical Current Density. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	18
140	An in situ element permeation constructed high endurance Li \square LZO interface at high current densities. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18853-18858	13	99
139	Disordered carbon tubes based on cotton cloth for modulating interface impedance in γ -Al ₂ O ₃ -based solid-state sodium metal batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12623-12629	13	15
138	N-Doped Graphene Decorated with Fe/Fe ₃ N/Fe ₄ N Nanoparticles as a Highly Efficient Cathode Catalyst for Rechargeable LiO ₂ Batteries. <i>ChemElectroChem</i> , 2018 , 5, 2435-2441	4.3	13
137	Highly stable garnet solid electrolyte based Li-S battery with modified anodic and cathodic interfaces. <i>Energy Storage Materials</i> , 2018 , 15, 282-290	19.4	82
136	A High-Rate Ionic Liquid Lithium-O ₂ Battery with LiOH Product. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5968-5973	3.8	20
135	Sulfonic Groups Originated Dual-Functional Interlayer for High Performance Lithium-Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14878-14888	9.5	97
134	Carbon-coated isotropic natural graphite spheres as anode material for lithium-ion batteries. <i>Ceramics International</i> , 2017 , 43, 9458-9464	5.1	35
133	Self-catalyzed decomposition of discharge products on the oxygen vacancy sites of MoO ₃ nanosheets for low-overpotential Li-O ₂ batteries. <i>Nano Energy</i> , 2017 , 36, 186-196	17.1	71
132	Synthesis of graphene-modified Li ₃ V ₂ (PO ₄) ₃ with superior electrochemical properties via a catalytic solid-state-reaction process. <i>Journal of Alloys and Compounds</i> , 2017 , 717, 1-7	5.7	8
131	Local Lattice Distortion Activate Metastable Metal Sulfide as Catalyst with Stable Full Discharge-Charge Capability for Li-O Batteries. <i>Nano Letters</i> , 2017 , 17, 3518-3526	11.5	56
130	Enhanced cycle performance of a Na/NiCl ₂ battery based on Ni particles encapsulated with Ni ₃ S ₂ layer. <i>Journal of Power Sources</i> , 2017 , 340, 411-418	8.9	26

129	Self-Repairing Function of NiS Layer on Ni Particles in the Na/NiCl Cells with the Addition of Sulfur in the Catholyte. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21234-21242	9.5	15
128	Facile synthesis of the sandwich-structured germanium/reduced graphene oxide hybrid: an advanced anode material for high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13430-13438	13	38
127	A rGO/CNT aerogel covalently bonded with a nitrogen-rich polymer as a polysulfide adsorptive cathode for high sulfur loading lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14775-14782	12.56	56
126	A hybrid electrolyte for long-life semi-solid-state lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13971-13975	13	37
125	The long life-span of a Li-metal anode enabled by a protective layer based on the pyrolyzed N-doped binder network. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9339-9349	13	39
124	A novel strategy to prepare Ge@C/rGO hybrids as high-rate anode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2017 , 342, 521-528	8.9	41
123	Li/Li ₇ La ₃ Zr ₂ O ₁₂ /LiFePO ₄ All-Solid-State Battery with Ultrathin Nanoscale Solid Electrolyte. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1431-1435	3.8	79
122	Improved performance of Li-S battery with hybrid electrolyte by interface modification. <i>Solid State Ionics</i> , 2017 , 300, 67-72	3.3	19
121	Interconnected CoFeO-Polypyrrole Nanotubes as Anode Materials for High Performance Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36927-36935	9.5	37
120	Performance and stability of BaCe _{0.8} Zr _{0.2} In _x O ₃ -based materials and reversible solid oxide cells working at intermediate temperature. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28549-28558	6.7	25
119	Study of CaZr _{0.9} In _{0.1} O ₃ -based reversible solid oxide cells with tubular electrode supported structure. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23189-23197	6.7	13
118	Influence of Cu ²⁺ doping concentration on the catalytic activity of Cu _x Co _{3-x} O ₄ for rechargeable LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18569-18576	13	8
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116	A potassium-rich iron hexacyanoferrate/dipotassium terephthalate@carbon nanotube composite used for K-ion full-cells with an optimized electrolyte. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19017-19024	12.108	108
115	Self-supported mesoporous FeCo ₂ O ₄ nanosheets as high capacity anode material for sodium-ion battery. <i>Chemical Engineering Journal</i> , 2017 , 330, 764-773	14.7	36
114	Solid polymer electrolyte based on thermoplastic polyurethane and its application in all-solid-state lithium ion batteries. <i>Solid State Ionics</i> , 2017 , 309, 15-21	3.3	27
113	Enhanced stability performance of nickel nanowire with 3D conducting network for planar sodium-nickel chloride batteries. <i>Journal of Power Sources</i> , 2017 , 360, 345-352	8.9	17
112	Fabrication and characterization of a double-layer electrolyte membrane for BaCeO ₃ -based reversible solid oxide cells (RSOCs). <i>Solid State Ionics</i> , 2017 , 308, 167-172	3.3	8

111	Long life anode material sodium titanate synthesized by a moderate method. <i>Materials Letters</i> , 2017 , 186, 326-329	3.3	3
110	One Step Fabrication of Co ₃ O ₄ -PPy Cathode for Lithium-O ₂ Batteries. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 35-40	4.9	7
109	Cobalt-substituted Na _{0.44} Mn _{1-x} Co _x O ₂ : phase evolution and a high capacity positive electrode for sodium-ion batteries. <i>Electrochimica Acta</i> , 2016 , 213, 496-503	6.7	32
108	Influence of La ₂ Zr ₂ O ₇ Additive on Densification and Li ⁺ Conductivity for Ta-Doped Li ₇ La ₃ Zr ₂ O ₁₂ Garnet. <i>Jom</i> , 2016 , 68, 2593-2600	2.1	26
107	Carbon Disulfide Cosolvent Electrolytes for High-Performance Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34379-34386	9.5	37
106	The Influence of Electrode Microstructure on the Performance of Free-Standing Cathode for Aprotic Lithium-Oxygen Battery. <i>Jom</i> , 2016 , 68, 2585-2592	2.1	6
105	Suppressing the dissolution of polysulfides with cosolvent fluorinated diether towards high-performance lithium sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 29293-29299	3.6	49
104	On the dispersion of lithium-sulfur battery cathode materials effected by electrostatic and stereo-chemical factors of binders. <i>Journal of Power Sources</i> , 2016 , 324, 455-461	8.9	45
103	Trimethylsilyl Chloride-Modified Li Anode for Enhanced Performance of Li-S Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16386-95	9.5	36
102	Anchoring Nanostructured Manganese Fluoride on Few-Layer Graphene Nanosheets as Anode for Enhanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1819-26	9.5	21
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99	One-step microwave synthesized core-shell structured selenium@carbon spheres as cathode materials for rechargeable lithium batteries. <i>Chemical Communications</i> , 2016 , 52, 5613-6	5.8	32
98	Reduced free-standing Co ₃ O ₄ @Ni cathode for lithium oxygen batteries with enhanced electrochemical performance. <i>RSC Advances</i> , 2016 , 6, 16263-16267	3.7	15
97	In Situ Self-Developed Nanoscale MnO/MEG Composite Anode Material for Lithium-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A722-A726	3.9	12
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89	A gel-ceramic multi-layer electrolyte for long-life lithium sulfur batteries. <i>Chemical Communications</i> , 2016 , 52, 1637-40	5.8	96
88	CNT@MnO ₂ Hybrid as Cathode Catalysts Toward Long-Life Lithium Oxygen Batteries. <i>ChemistrySelect</i> , 2016 , 1, 6749-6754	1.8	6
87	Hierarchically ordered mesoporous Co ₃ O ₄ materials for high performance Li-ion batteries. <i>Scientific Reports</i> , 2016 , 6, 19564	4.9	72
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