

Pengjian Zuo

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207
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h-index

70
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216
ext. papers

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ext. citations

9.2
avg. IF

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L-index

#	Paper	IF	Citations
207	Corrosion/fragmentation of layered composite cathode and related capacity/voltage fading during cycling process. <i>Nano Letters</i> , 2013 , 13, 3824-30	11.5	311
206	Superior performance of ordered macroporous TiNb ₂ O ₇ anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. <i>Nano Energy</i> , 2017 , 34, 15-25	17.1	264
205	Understanding undesirable anode lithium plating issues in lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 88683-88700	3.7	204
204	Direct Observation of Sulfur Radicals as Reaction Media in Lithium Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A474-A478	3.9	155
203	ZIF-8 with Ferrocene Encapsulated: A Promising Precursor to Single-Atom Fe Embedded Nitrogen-Doped Carbon as Highly Efficient Catalyst for Oxygen Electroreduction. <i>Small</i> , 2018 , 14, e1704282	11.2	148
202	Nanosized core/shell silicon@carbon anode material for lithium ion batteries with polyvinylidene fluoride as carbon source. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3216		146
201	Pseudocapacitive Li ⁺ intercalation in porous Ti ₂ Nb ₁₀ O ₂₉ nanospheres enables ultra-fast lithium storage. <i>Energy Storage Materials</i> , 2018 , 11, 57-66	19.4	119
200	High-rate capability of three-dimensionally ordered macroporous T-Nb ₂ O ₅ through Li ⁺ intercalation pseudocapacitance. <i>Journal of Power Sources</i> , 2017 , 361, 80-86	8.9	106
199	Fluoroethylene carbonate as electrolyte additive to improve low temperature performance of LiFePO ₄ electrode. <i>Electrochimica Acta</i> , 2013 , 87, 466-472	6.7	100
198	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. <i>Nature Communications</i> , 2020 , 11, 3050	17.4	97
197	Facile synthesis of nanostructured TiNb ₂ O ₇ anode materials with superior performance for high-rate lithium ion batteries. <i>Chemical Communications</i> , 2015 , 51, 17293-6	5.8	96
196	Lithium-rich Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ oxide coated by Li ₃ PO ₄ and carbon nanocomposite layers as high performance cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2634-2641	13	92
195	Improved electrochemical performance of micro-sized SiO ₂ -based composite anode by prelithiation of stabilized lithium metal powder. <i>Journal of Power Sources</i> , 2017 , 347, 170-177	8.9	91
194	Revisit Carbon/Sulfur Composite for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1624-A1628	3.9	89
193	Interface Issues and Challenges in All-Solid-State Batteries: Lithium, Sodium, and Beyond. <i>Advanced Materials</i> , 2021 , 33, e2000721	24	84
192	Enabling reliable lithium metal batteries by a bifunctional anionic electrolyte additive. <i>Energy Storage Materials</i> , 2018 , 11, 197-204	19.4	82
191	Controlled Nucleation and Growth Process of Li ₂ S ₂ /Li ₂ S in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1992-A1996	3.9	82

190	Electrochemical Kinetics and Performance of Layered Composite Cathode Material Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ . <i>Journal of the Electrochemical Society</i> , 2013 , 160, A2212-A2219	3.9	80
189	Oxygen vacancies in SnO ₂ surface coating to enhance the activation of layered Li-Rich Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ cathode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2016 , 331, 91-99	8.9	75
188	Unravelling the origin of irreversible capacity loss in NaNiO ₂ for high voltage sodium ion batteries. <i>Nano Energy</i> , 2017 , 34, 215-223	17.1	69
187	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. <i>Small</i> , 2019 , 15, e1904740	11	69
186	Capacity fading mechanism during long-term cycling of over-discharged LiCoO ₂ /mesocarbon microbeads battery. <i>Journal of Power Sources</i> , 2015 , 293, 1006-1015	8.9	67
185	High-performance LiFePO ₄ cathode material from FePO ₄ microspheres with carbon nanotube networks embedded for lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 223, 100-106	8.9	67
184	A Mild Surface Washing Method Using Protonated Polyaniline for Ni-rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Material of Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2017 , 248, 534-540	6.7	67
183	Micro-sized spherical silicon@carbon@graphene prepared by spray drying as anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 434-440	5.7	67
182	A two-dimensional nitrogen-rich carbon/silicon composite as high performance anode material for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 341, 37-46	14.7	66
181	Facilitating the redox reaction of polysulfides by an electrocatalytic layer-modified separator for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10936-10945	13	65
180	An Li-rich oxide cathode material with mosaic spinel grain and a surface coating for high performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15640	13	65
179	Achieving long-life Prussian blue analogue cathode for Na-ion batteries via triple-cation lattice substitution and coordinated water capture. <i>Nano Energy</i> , 2019 , 61, 201-210	17.1	63
178	Facile electrospinning preparation of phosphorus and nitrogen dual-doped cobalt-based carbon nanofibers as bifunctional electrocatalyst. <i>Journal of Power Sources</i> , 2016 , 311, 68-80	8.9	61
177	Interface modifications by anion receptors for high energy lithium ion batteries. <i>Journal of Power Sources</i> , 2014 , 250, 313-318	8.9	61
176	Polyaniline-encapsulated silicon on three-dimensional carbon nanotubes foam with enhanced electrochemical performance for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018 , 381, 156-163	8.9	60
175	Electrochemical stability of silicon/carbon composite anode for lithium ion batteries. <i>Electrochimica Acta</i> , 2007 , 52, 4878-4883	6.7	59
174	Iodine-doped sulfurized polyacrylonitrile with enhanced electrochemical performance for room-temperature sodium/potassium sulfur batteries. <i>Chemical Communications</i> , 2019 , 55, 5267-5270	5.8	58
173	Improved electrochemical performance and capacity fading mechanism of nano-sized LiMn _{0.9} Fe _{0.1} PO ₄ cathode modified by polyacene coating. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15693-15795	13.1	55

172	Al ₂ O ₃ Coated Concentration-Gradient Li[Ni _{0.73} Co _{0.12} Mn _{0.15}]O ₂ Cathode Material by Freeze Drying for Long-Life Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2015 , 174, 1185-1191	6.7	54
171	Palladium nanocrystals-imbedded mesoporous hollow carbon spheres with enhanced electrochemical kinetics for high performance lithium sulfur batteries. <i>Carbon</i> , 2019 , 143, 878-889	10.4	54
170	Synergistic engineering of defects and architecture in Co ₃ O ₄ @C nanosheets toward Li/Na ion batteries with enhanced pseudocapacitances. <i>Nano Energy</i> , 2020 , 78, 105366	17.1	53
169	Electronically Conductive Sb-doped SnO ₂ Nanoparticles Coated LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material with Enhanced Electrochemical Properties for Li-ion Batteries. <i>Electrochimica Acta</i> , 2017 , 236, 273-279	6.7	50
168	Free-Standing Sandwich-Type Graphene/Nanocellulose/Silicon Laminate Anode for Flexible Rechargeable Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29638-29646	9.5	48
167	1,3,6-Hexanetricarbonitrile as electrolyte additive for enhancing electrochemical performance of high voltage Li-rich layered oxide cathode. <i>Journal of Power Sources</i> , 2017 , 361, 227-236	8.9	47
166	Understanding the initial irreversibility of metal sulfides for sodium-ion batteries via operando techniques. <i>Nano Energy</i> , 2018 , 43, 184-191	17.1	46
165	Probing Battery Electrochemistry with In Operando Synchrotron X-Ray Imaging Techniques. <i>Small Methods</i> , 2018 , 2, 1700293	12.8	44
164	The effects of LiBOB additive for stable SEI formation of PP13TFSI-organic mixed electrolyte in lithium ion batteries. <i>Electrochimica Acta</i> , 2011 , 56, 4841-4848	6.7	44
163	State of health diagnosis model for lithium ion batteries based on real-time impedance and open circuit voltage parameters identification method. <i>Energy</i> , 2018 , 144, 647-656	7.9	44
162	Effects of fluoroethylene carbonate on low temperature performance of mesocarbon microbeads anode. <i>Electrochimica Acta</i> , 2012 , 74, 260-266	6.7	42
161	Enhancement of high voltage cycling performance and thermal stability of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode by use of boron-based additives. <i>Solid State Ionics</i> , 2014 , 263, 146-151	3.3	40
160	Investigations of Compositions and Performance of PtRuMo/C Ternary Catalysts for Methanol Electrooxidation. <i>Fuel Cells</i> , 2009 , 9, 106-113	2.9	40
159	Insights into interfacial effect and local lithium-ion transport in polycrystalline cathodes of solid-state batteries. <i>Nature Communications</i> , 2020 , 11, 5700	17.4	40
158	A three-dimensional silicon/nitrogen-doped graphitized carbon composite as high-performance anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 190-197	5.7	40
157	Influence of fluoroethylene carbonate as co-solvent on the high-voltage performance of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016 , 191, 8-15	6.7	39
156	Iron sulfide/carbon hybrid cluster as an anode for potassium-ion storage. <i>Journal of Alloys and Compounds</i> , 2018 , 766, 1086-1091	5.7	39
155	Recent Progress of Electrochemical Production of Hydrogen Peroxide by Two-Electron Oxygen Reduction Reaction. <i>Advanced Science</i> , 2021 , 8, e2100076	13.6	38

154	Hierarchical ordered macroporous/ultrathin mesoporous carbon architecture: A promising cathode scaffold with excellent rate performance for rechargeable Li-O ₂ batteries. <i>Carbon</i> , 2017 , 118, 139-147	10.4	37
153	Ascorbic acid-assisted solvothermal synthesis of LiMn _{0.9} Fe _{0.1} PO ₄ /C nanoplatelets with enhanced electrochemical performance for lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 243, 872-879	8.9	36
152	Simple annealing process for performance improvement of silicon anode based on polyvinylidene fluoride binder. <i>Journal of Power Sources</i> , 2010 , 195, 2069-2073	8.9	36
151	Unravelling the Interface Layer Formation and Gas Evolution/Suppression on a TiNbO Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27056-27062	9.5	35
150	Degradation mechanism of LiCoO ₂ /mesocarbon microbeads battery based on accelerated aging tests. <i>Journal of Power Sources</i> , 2014 , 268, 816-823	8.9	35
149	A dual-salt coupled fluoroethylene carbonate succinonitrile-based electrolyte enables Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2066-2073	13	35
148	Structural Distortion Induced by Manganese Activation in a Lithium-Rich Layered Cathode. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14966-14973	16.4	35
147	A novel nanoporous Fe-doped lithium manganese phosphate material with superior long-term cycling stability for lithium-ion batteries. <i>Nanoscale</i> , 2015 , 7, 11509-14	7.7	34
146	Clew-like N-doped multiwalled carbon nanotube aggregates derived from metal-organic complexes for lithium-sulfur batteries. <i>Carbon</i> , 2017 , 122, 635-642	10.4	33
145	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. <i>Chemistry of Materials</i> , 2017 , 29, 2141-2149	9.6	31
144	Amorphous carbon-encapsulated Si nanoparticles loading on MCMB with sandwich structure for lithium ion batteries. <i>Electrochimica Acta</i> , 2019 , 306, 590-598	6.7	31
143	The effect of elevated temperature on the accelerated aging of LiCoO ₂ /mesocarbon microbeads batteries. <i>Applied Energy</i> , 2016 , 177, 1-10	10.7	30
142	Pseudocapacitive Li ⁺ storage boosts ultrahigh rate performance of structure-tailored CoFe ₂ O ₄ @Fe ₂ O ₃ hollow spheres triggered by engineered surface and near-surface reactions. <i>Nano Energy</i> , 2019 , 66, 104179	17.1	30
141	Si/Mn composite anodes for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2006 , 414, 265-268	5.7	30
140	Multi-scale Imaging of Solid-State Battery Interfaces: From Atomic Scale to Macroscopic Scale. <i>Chem</i> , 2020 , 6, 2199-2218	16.2	30
139	Electrochemical performance degeneration mechanism of LiCoO ₂ with high state of charge during long-term charge/discharge cycling. <i>RSC Advances</i> , 2015 , 5, 81235-81242	3.7	29
138	Lithium Phosphorus Oxynitride Coated Concentration Gradient Li[Ni _{0.73} Co _{0.12} Mn _{0.15}]O ₂ Cathode Material with Enhanced Electrochemical Properties. <i>Electrochimica Acta</i> , 2016 , 192, 340-345	6.7	29
137	Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18647-18653	16.4	29

136	Lithium deposition on graphite anode during long-term cycles and the effect on capacity loss. <i>RSC Advances</i> , 2014 , 4, 26335-26341	3.7	29
135	Synthesis and electrochemical performance of Si/Cu and Si/Cu/graphite composite anode. <i>Materials Chemistry and Physics</i> , 2007 , 104, 444-447	4.4	29
134	A Novel One-dimensional Reduced Graphene Oxide/Sulfur Nanoscroll Material and its Application in Lithium Sulfur Batteries. <i>Electrochimica Acta</i> , 2016 , 222, 1861-1869	6.7	29
133	Triphenyl phosphite as an electrolyte additive to improve the cyclic stability of lithium-rich layered oxide cathode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016 , 216, 44-50	6.7	27
132	Optimized Operating Range for Large-Format LiFePO ₄ /Graphite Batteries. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A336-A341	3.9	27
131	Self-doping Ti _{1-x} Nb _{2+x} O ₇ anode material for lithium-ion battery and its electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2017 , 728, 534-540	5.7	27
130	Effects of carbon on the structure and electrochemical performance of Li ₂ FeSiO ₄ cathode materials for lithium-ion batteries. <i>RSC Advances</i> , 2012 , 2, 6994	3.7	27
129	Unravelling the Enhanced High-Temperature Performance of Lithium-Rich Oxide Cathode with Methyl Diphenylphosphinite as Electrolyte Additive. <i>ChemElectroChem</i> , 2018 , 5, 1569-1575	4.3	26
128	Lithium compound deposition on mesocarbon microbead anode of lithium ion batteries after long-term cycling. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12962-70	9.5	26
127	Inducing uniform lithium nucleation by integrated lithium-rich li-in anode with lithiophilic 3D framework. <i>Energy Storage Materials</i> , 2020 , 33, 423-431	19.4	26
126	Low-Temperature Solution Synthesis of Black Phosphorus from Red Phosphorus: Crystallization Mechanism and Lithium Ion Battery Applications. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2708-2718	6.4	25
125	Facile synthesis of binder-free reduced graphene oxide/silicon anode for high-performance lithium ion batteries. <i>Journal of Power Sources</i> , 2016 , 312, 216-222	8.9	25
124	Unraveling the Origins of the Unreactive Core in Conversion Electrodes to Trigger High Sodium-Ion Electrochemistry. <i>ACS Energy Letters</i> , 2019 , 4, 2007-2012	20.1	25
123	Cobalt nanoparticle-encapsulated carbon nanowire arrays: Enabling the fast redox reaction kinetics of lithium-sulfur batteries. <i>Carbon</i> , 2018 , 140, 385-393	10.4	25
122	Lithium Cobalt Oxides Functionalized by Conductive Al-doped ZnO Coating as Cathode for High-performance Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2017 , 224, 96-104	6.7	24
121	Role of fluorine surface modification in improving electrochemical cyclability of concentration gradient Li[Ni _{0.73} Co _{0.12} Mn _{0.15}]O ₂ cathode material for Li-ion batteries. <i>RSC Advances</i> , 2016 , 6, 26307-26316	3.7	24
120	A quasi-solid-state LiS battery with high energy density, superior stability and safety. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6533-6542	13	24
119	Polymeric multilayer-modified manganese dioxide with hollow porous structure as sulfur host for lithium sulfur batteries. <i>Electrochimica Acta</i> , 2018 , 259, 440-448	6.7	23

118	Single small molecule-assembled nanoparticles mediate efficient oral drug delivery. <i>Nano Research</i> , 2019 , 12, 2468-2476	10	23
117	Improvement of cycle performance for silicon/carbon composite used as anode for lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2009 , 115, 757-760	4.4	23
116	Improved high-voltage performance of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode with Tris(2,2,2-trifluoroethyl) phosphite as electrolyte additive. <i>Electrochimica Acta</i> , 2017 , 243, 72-81	6.7	22
115	Enhancement of the electrochemical performance of silicon/carbon composite material for lithium ion batteries. <i>Ionics</i> , 2011 , 17, 87-90	2.7	22
114	Capacity degradation mechanism and improvement actions for 4 V-class all-solid-state lithium-metal polymer batteries. <i>Chemical Engineering Journal</i> , 2020 , 392, 123665	14.7	22
113	Enhanced Electrochemical Performance of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material via Li ₂ TiO ₃ Nanoparticles Coating. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A143-A150	3.9	22
112	Scalable mesoporous silicon microparticles composed of interconnected nanoplates for superior lithium storage. <i>Chemical Engineering Journal</i> , 2019 , 375, 121923	14.7	21
111	The degradation of LiCoO ₂ /graphite batteries at different rates. <i>Electrochimica Acta</i> , 2018 , 279, 204-2126.7		21
110	Accelerated aging and degradation mechanism of LiFePO ₄ /graphite batteries cycled at high discharge rates.. <i>RSC Advances</i> , 2018 , 8, 25695-25703	3.7	21
109	Mixed lithium ion and electron conducting LiAlPO _{3.93} F _{1.07} -coated LiCoO ₂ cathode with improved electrochemical performance. <i>Electrochemistry Communications</i> , 2017 , 83, 106-109	5.1	21
108	Intercalation pseudocapacitive electrochemistry of Nb-based oxides for fast charging of lithium-ion batteries. <i>Nano Energy</i> , 2021 , 81, 105635	17.1	21
107	Pseudocapacitive Li ⁺ intercalation in ZnO/ZnO@C composites enables high-rate lithium-ion storage and stable cyclability. <i>Ceramics International</i> , 2017 , 43, 11998-12004	5.1	20
106	Stable anchoring and uniform distribution of SiO ₂ nanotubes on reduced graphene oxide through electrostatic self-assembly for ultra-high lithium storage performance. <i>Carbon</i> , 2020 , 167, 835-842	10.4	20
105	Effect of short-time external short circuiting on the capacity fading mechanism during long-term cycling of LiCoO ₂ /mesocarbon microbeads battery. <i>Journal of Power Sources</i> , 2016 , 318, 154-162	8.9	20
104	Improved Rate Performance of Lithium Sulfur Batteries by In-Situ Anchoring of Lithium Iodide in Carbon/Sulfur Cathode. <i>Electrochimica Acta</i> , 2017 , 238, 257-262	6.7	19
103	The effects of functional ionic liquid on properties of solid polymer electrolyte. <i>Materials Chemistry and Physics</i> , 2011 , 128, 250-255	4.4	19
102	A general way to fabricate transition metal dichalcogenide/oxide-sandwiched MXene nanosheets as flexible film anodes for high-performance lithium storage. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2577-2582	5.8	18
101	Improved electrochemical performance of NaAlO ₂ -coated LiCoO ₂ for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1195-1201	2.6	18

100	High-performance carbon-coated LiMnPO ₄ nanocomposites by facile two-step solid-state synthesis for lithium-ion battery. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 281-288	2.6	18
99	Engineering Molecular Polymerization for Template-Free SiO _x /C Hollow Spheres as Ultrastable Anodes in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101145	15.6	18
98	Electrochemically-driven interphase conditioning of magnesium electrode for magnesium sulfur batteries. <i>Journal of Energy Chemistry</i> , 2019 , 37, 215-219	12	17
97	Novel confinement of Mn ₃ O ₄ nanoparticles on two-dimensional carbide enabling high-performance electrochemical synthesis of ammonia under ambient conditions. <i>Chemical Engineering Journal</i> , 2020 , 396, 125163	14.7	17
96	Enhanced electrochemical performance of Li ₄ Ti ₅ O ₁₂ through in-situ coating 70Li ₂ S-30P ₂ S ₅ solid electrolyte for all-solid-state lithium batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 8-13	5.7	17
95	Layer-by-Layer Engineered Silicon-Based Sandwich Nanomat as Flexible Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39970-39978	9.5	17
94	Enhanced lithium storage performance of silicon anode via fabricating into sandwich electrode. <i>Electrochimica Acta</i> , 2011 , 56, 4403-4407	6.7	17
93	Understanding the Structural Evolution and Lattice Water Movement for Rhombohedral Nickel Hexacyanoferrate upon Sodium Migration. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46705-46713	9.5	17
92	Improved Electrochemical Performance of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material by Coating of Graphene Nanodots. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1038-A1044	3.9	16
91	Thin-carbon-layer-enveloped cobalt-iron oxide nanocages as a high-efficiency sulfur container for LiS batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20604-20611	13	16
90	Insights into the role of oxygen functional groups and defects in the rechargeable nonaqueous LiD ₂ batteries. <i>Electrochimica Acta</i> , 2018 , 292, 838-845	6.7	16
89	Improving electrochemical performance of Nano-Si/N-doped carbon through tuning the microstructure from two dimensions to three dimensions. <i>Electrochimica Acta</i> , 2020 , 332, 135507	6.7	15
88	Enhanced photocatalytic performance of spherical BiOI/MnO composite and mechanism investigation.. <i>RSC Advances</i> , 2018 , 8, 36161-36166	3.7	15
87	Modifying High-Voltage Olivine-Type LiMnPO ₄ Cathode via Mg Substitution in High-Orientation Crystal. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5928-5935	6.1	15
86	Recovery Strategy and Mechanism of Aged Lithium Ion Batteries after Shallow Depth of Discharge at Elevated Temperature. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5234-42	9.5	14
85	Immobilization and kinetic promotion of polysulfides by molybdenum carbide in lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 411, 128563	14.7	14
84	An interface-reinforced rhombohedral Prussian blue analogue in semi-solid state electrolyte for sodium-ion battery. <i>Energy Storage Materials</i> , 2021 , 36, 99-107	19.4	14
83	Modulating CoFe ₂ O ₄ nanocube with oxygen vacancy and carbon wrapper towards enhanced electrocatalytic nitrogen reduction to ammonia. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120452	21.8	14

82	State-of-health estimation for satellite batteries based on the actual operating parameters □ Health indicator extraction from the discharge curves and state estimation. <i>Journal of Energy Storage</i> , 2020 , 31, 101490	7.8	13
81	Scalable submicron/micron silicon particles stabilized in a robust graphite-carbon architecture for enhanced lithium storage. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 783-790	9.3	13
80	Improved electrochemical performance of nano-crystalline Li ₂ FeSiO ₄ /C cathode material prepared by the optimization of sintering temperature. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 1955-1959	3.6	13
79	A Phosphorous Additive for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, A129		13
78	Electrochemical investigation of silicon/carbon composite as anode material for lithium ion batteries. <i>Journal of Materials Science</i> , 2008 , 43, 3149-3152	4.3	13
77	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. <i>Advanced Functional Materials</i> , 2021 , 31, 2010526	15.6	13
76	Effects of VC-LiBOB binary additives on SEI formation in ionic liquid□organic composite electrolyte. <i>RSC Advances</i> , 2012 , 2, 4097	3.7	12
75	Electrochemical reaction of the SiMn/C composite for anode in lithium ion batteries. <i>Electrochimica Acta</i> , 2006 , 52, 1527-1531	6.7	12
74	Defect-enriched carbon nanofibers encapsulating NiCo oxide for efficient oxygen electrocatalysis and rechargeable Zn-air batteries. <i>Journal of Power Sources</i> , 2020 , 473, 228604	8.9	12
73	Improving electrochemical performance of rechargeable magnesium batteries with conditioning-free Mg-Cl complex electrolyte. <i>Chemical Engineering Journal</i> , 2021 , 403, 126398	14.7	12
72	Reversible Silicon Anodes with Long Cycles by Multifunctional Volumetric Buffer Layers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4093-4101	9.5	12
71	Iodine-doped sulfurized polyacrylonitrile with enhanced electrochemical performance for lithium sulfur batteries in carbonate electrolyte. <i>Chemical Engineering Journal</i> , 2021 , 418, 129410	14.7	12
70	An artificial interphase enables the use of Mg(TFSI) ₂ -based electrolytes in magnesium metal batteries. <i>Chemical Engineering Journal</i> , 2021 , 426, 130751	14.7	12
69	Perovskite LaCoMnO with Tunable Defect and Surface Structures as Cathode Catalysts for Li-O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10452-10460	9.5	11
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