

# Pengjian Zuo

## 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.

207  
papers

6,461  
citations

44  
h-index

70  
g-index

216  
ext. papers

8,044  
ext. citations

9.2  
avg. IF

6.19  
L-index

#	Paper	IF	Citations
207	Crystallographic engineering to reduce diffusion barrier for enhanced intercalation pseudocapacitance of TiNb <sub>2</sub> O <sub>7</sub> in fast-charging batteries. <i>Energy Storage Materials</i> , <b>2022</b> , 47, 178-178	19.4	3
206	Layered porous silicon encapsulated in carbon nanotube cage as ultra-stable anode for lithium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 133982	14.7	5
205	Tailoring lithium-peroxide reaction kinetics with CuN <sub>2</sub> C <sub>2</sub> single-atom moieties for lithium-oxygen batteries. <i>Nano Energy</i> , <b>2022</b> , 93, 106810	17.1	2
204	Molecular bridges stabilize lithium metal anode and solid-state electrolyte interface. <i>Chemical Engineering Journal</i> , <b>2022</b> , 432, 134271	14.7	0
203	Regulating Li deposition by constructing homogeneous LiF protective layer for high-performance Li metal anode. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131625	14.7	6
202	Tuning the phase evolution pathway of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> synthesis from binary intermediates to ternary intermediates with thermal regulating agent. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 65, 62-70	12	0
201	Single-Atom Tailored Hierarchical Transition Metal Oxide Nanocages for Efficient Lithium Storage.. <i>Small</i> , <b>2022</b> , e2200367	11	2
200	Poly (vinyl ethylene carbonate)-based dual-salt gel polymer electrolyte enabling high voltage lithium metal batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 437, 135419	14.7	1
199	Recent progress of Prussian blue analogues as cathode materials for nonaqueous sodium-ion batteries. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 460, 214478	23.2	7
198	Cobalt-iron oxide nanoparticles anchored on carbon nanotube paper to accelerate polysulfide conversion for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 909, 164805	5.7	1
197	Enabling the conventional TFSI-based electrolytes for high-performance Mg/Li hybrid batteries by Mg electrode interfacial regulation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 444, 136592	14.7	1
196	Hierarchical NiMn/NiMn-LDH/ppy-C induced by a novel phase-transformation activation process for long-life supercapacitor.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 622, 1020-1028	9.3	0
195	Pt/C-TiO <sub>2</sub> as Oxygen Reduction Electrocatalysts against Sulfur Poisoning. <i>Catalysts</i> , <b>2022</b> , 12, 571	4	
194	Achieving high-energy-density magnesium/sulfur battery via a passivation-free Mg-Li alloy anode. <i>Energy Storage Materials</i> , <b>2022</b> , 50, 380-386	19.4	0
193	Stable lithium anode enabled by biphasic hybrid SEI layer toward high-performance lithium metal batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133570	14.7	1
192	πConjugation Induced Anchoring of Ferrocene on Graphdiyne Enable Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Advanced Science</i> , <b>2021</b> , e2103964	13.6	1
191	Chelated electrolytes for divalent metal ions. <i>Science</i> , <b>2021</b> , 374, 156	33.3	1

190	Integrating Co <sub>3</sub> O <sub>4</sub> nanoparticles with MnO <sub>2</sub> nanosheets as bifunctional electrocatalysts for water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 10356-10365	6.7	10
189	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010526	15.6	13
188	Engineering Molecular Polymerization for Template-Free SiO <sub>x</sub> /C Hollow Spheres as Ultrastable Anodes in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101145	15.6	18
187	A Review of Magnesium Aluminum Chloride Complex Electrolytes for Mg Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100650	15.6	7
186	A Scalable Cathode Chemical Prelithiation Strategy for Advanced Silicon-Based Lithium Ion Full Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 11985-11994	9.5	11
185	Phosphorus-doped carbon as cathode material for high energy nonaqueous Li-O <sub>2</sub> batteries. <i>Applied Surface Science</i> , <b>2021</b> , 543, 148864	6.7	6
184	Electrochemical behaviors in the anode of LiCoO <sub>2</sub> /mesocarbon microbead battery and their impacts on the capacity degradation. <i>Ionics</i> , <b>2021</b> , 27, 2353-2365	2.7	1
183	Interface Reinforcement of a Prussian Blue Cathode Using a Non-Flammable Co-Solvent Cresyl Diphenyl Phosphate for a High-Safety Na-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 5809-5817	8.3	3
182	Recent Progress of Electrochemical Production of Hydrogen Peroxide by Two-Electron Oxygen Reduction Reaction. <i>Advanced Science</i> , <b>2021</b> , 8, e2100076	13.6	38
181	Formation of an Artificial Mg-Permeable Interphase on Mg Anodes Compatible with Ether and Carbonate Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 24565-24574	9.5	7
180	An Interphase-enhanced Liquid Na-K Anode for Dendrite-free Alkali Metal Batteries Enabled by SiCl <sub>4</sub> Electrolyte Additive. <i>Energy Storage Materials</i> , <b>2021</b> , 37, 199-206	19.4	9
179	Immobilization and kinetic promotion of polysulfides by molybdenum carbide in lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128563	14.7	14
178	LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> /graphite batteries storing at high temperature: Capacity fading and raveling of aging mechanisms. <i>Journal of Power Sources</i> , <b>2021</b> , 496, 229858	8.9	6
177	Realizing Solid-Phase Reaction in LiS Batteries via Localized High-Concentration Carbonate Electrolyte. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101004	21.8	9
176	Stabilizing Lithium Metal Anode Enabled by a Natural Polymer Layer for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28252-28260	9.5	6
175	In-situ thermal polymerization boosts succinonitrile-based composite solid-state electrolyte for high performance Li-metal battery. <i>Journal of Power Sources</i> , <b>2021</b> , 496, 229861	8.9	11
174	Unraveling the advances of trace doping engineering for potassium ion battery anodes via tomography. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 58, 355-363	12	9
173	Interface Issues and Challenges in All-Solid-State Batteries: Lithium, Sodium, and Beyond. <i>Advanced Materials</i> , <b>2021</b> , 33, e2000721	24	84

172	Improving electrochemical performance of rechargeable magnesium batteries with conditioning-free Mg-Cl complex electrolyte. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126398	14.7	12
171	Intercalation pseudocapacitive electrochemistry of Nb-based oxides for fast charging of lithium-ion batteries. <i>Nano Energy</i> , <b>2021</b> , 81, 105635	17.1	21
170	An interface-reinforced rhombohedral Prussian blue analogue in semi-solid state electrolyte for sodium-ion battery. <i>Energy Storage Materials</i> , <b>2021</b> , 36, 99-107	19.4	14
169	Multi-dimensionally hierarchical self-supported Cu@Cu <sub>2</sub> O@Co <sub>3</sub> O <sub>4</sub> heterostructure enabling superior lithium-ion storage and electrocatalytic oxygen evolution. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126699	14.7	9
168	Reversible Silicon Anodes with Long Cycles by Multifunctional Volumetric Buffer Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 4093-4101	9.5	12
167	Hierarchical pores from microscale to macroscale boost ultrahigh lithium intercalation pseudocapacitance of biomass carbon. <i>Journal of Energy Storage</i> , <b>2021</b> , 33, 102068	7.8	2
166	Voltage hysteresis of magnesium anode: Taking magnesium-sulfur battery as an example. <i>Electrochimica Acta</i> , <b>2021</b> , 369, 137685	6.7	4
165	Flame-Retardant and Polysulfide-Suppressed Ether-Based Electrolytes for High-Temperature Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 38296-38304	9.5	0
164	Iodine-doped sulfurized polyacrylonitrile with enhanced electrochemical performance for lithium sulfur batteries in carbonate electrolyte. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129410	14.7	12
163	An armor-like artificial solid electrolyte interphase layer for high performance lithium-sulfur batteries. <i>Applied Materials Today</i> , <b>2021</b> , 24, 101108	6.6	2
162	Cobalt-iron oxide nanotubes decorated with polyaniline as advanced cathode hosts for Li-S batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 390, 138873	6.7	3
161	Modulating CoFe <sub>2</sub> O <sub>4</sub> nanocube with oxygen vacancy and carbon wrapper towards enhanced electrocatalytic nitrogen reduction to ammonia. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 297, 120452	21.8	14
160	An artificial interphase enables the use of Mg(TFSI) <sub>2</sub> -based electrolytes in magnesium metal batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 130751	14.7	12
159	Stable anchoring and uniform distribution of SiO <sub>2</sub> nanotubes on reduced graphene oxide through electrostatic self-assembly for ultra-high lithium storage performance. <i>Carbon</i> , <b>2020</b> , 167, 835-842	10.4	20
158	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> , <b>2020</b> , 31, 101490	7.8	13
157	Surface nitrated and carbon coated TiNb <sub>2</sub> O <sub>7</sub> anode material with excellent performance for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155241	5.7	10
156	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. <i>Nature Communications</i> , <b>2020</b> , 11, 3050	17.4	97
155	Novel confinement of Mn <sub>3</sub> O <sub>4</sub> nanoparticles on two-dimensional carbide enabling high-performance electrochemical synthesis of ammonia under ambient conditions. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125163	14.7	17

154	Low-Temperature Solution Synthesis of Black Phosphorus from Red Phosphorus: Crystallization Mechanism and Lithium Ion Battery Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2708-2716	6.4	25
153	Perovskite LaCoMnO with Tunable Defect and Surface Structures as Cathode Catalysts for Li-O Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10452-10460	9.5	11
152	Superior Electrochemical Performance of WNb <sub>2</sub> O <sub>8</sub> Nanorods Triggered by Ultra-Efficient Li <sup>+</sup> Diffusion. <i>ChemistrySelect</i> , <b>2020</b> , 5, 1209-1213	1.8	5
151	A dual-salt coupled fluoroethylene carbonate succinonitrile-based electrolyte enables Li-metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2066-2073	13	35
150	Improving electrochemical performance of Nano-Si/N-doped carbon through tuning the microstructure from two dimensions to three dimensions. <i>Electrochimica Acta</i> , <b>2020</b> , 332, 135507	6.7	15
149	Unraveling the Relationship between Ti <sup>4+</sup> Doping and Li <sup>+</sup> Mobility Enhancement in Ti <sup>4+</sup> Doped Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> . <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 715-722	6.1	6
148	Capacity degradation mechanism and improvement actions for 4 V-class all-solid-state lithium-metal polymer batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123665	14.7	22
147	Sulfur Dioxide-Tolerant Bimetallic PtRu Catalyst toward Oxygen Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1295-1301	8.3	10
146	Insights into interfacial effect and local lithium-ion transport in polycrystalline cathodes of solid-state batteries. <i>Nature Communications</i> , <b>2020</b> , 11, 5700	17.4	40
145	Structural Distortion Induced by Manganese Activation in a Lithium-Rich Layered Cathode. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 14966-14973	16.4	35
144	Defect-enriched carbon nanofibers encapsulating NiCo oxide for efficient oxygen electrocatalysis and rechargeable Zn-air batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 473, 228604	8.9	12
143	Facile carbon fiber-sewed high areal density electrode for lithium sulfur batteries. <i>Chemical Communications</i> , <b>2020</b> , 56, 10758-10761	5.8	6
142	Multi-scale Imaging of Solid-State Battery Interfaces: From Atomic Scale to Macroscopic Scale. <i>CheM</i> , <b>2020</b> , 6, 2199-2218	16.2	30
141	Inducing uniform lithium nucleation by integrated lithium-rich li-in anode with lithiophilic 3D framework. <i>Energy Storage Materials</i> , <b>2020</b> , 33, 423-431	19.4	26
140	Enabling Highly Stable LiO <sub>2</sub> Batteries with Full Discharge/Charge Capability: The Porous Binder- and Carbon-Free IrNi Nanosheet Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16115-16123	8.3	2
139	Synergistic engineering of defects and architecture in Co <sub>3</sub> O <sub>4</sub> @C nanosheets toward Li/Na ion batteries with enhanced pseudocapacitances. <i>Nano Energy</i> , <b>2020</b> , 78, 105366	17.1	53
138	Thin-carbon-layer-enveloped cobalt/iron oxide nanocages as a high-efficiency sulfur container for LiS batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20604-20611	13	16
137	DFT and experimental study of nano red phosphorus anchoring on sulfurized polyacrylonitrile for lithium-ion batteries. <i>Chemical Communications</i> , <b>2020</b> , 56, 12857-12860	5.8	3

136	Black phosphorus-modified sulfurized polyacrylonitrile with high C-rate and cycling performance in ether-based electrolyte for lithium sulfur batteries. <i>Chemical Communications</i> , <b>2020</b> , 56, 12797-12800	5.8	11
135	Unraveling the Promotion Effects of a Soluble Cobaltocene Catalyst with Respect to Li-O Battery Discharge. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 7028-7034	6.4	9
134	A Novel Spherical Boron Phosphide as a High-Efficiency Overall Water Splitting Catalyst: A Density Functional Theory Study. <i>Catalysis Letters</i> , <b>2020</b> , 150, 544-554	2.8	3
133	Solvate ionic liquid boosting favorable interfaces kinetics to achieve the excellent performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anodes in Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> based solid-state batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 123046	14.7	5
132	In-situ formed free-standing Ir nanocatalysts as carbon- and binder-free cathode for rechargeable nonaqueous LiO <sub>2</sub> batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 832, 155009	5.7	5
131	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> , <b>2019</b> , 3, 2577-2582	5.8	18
130	Direct dimethyl ether fuel cells with low platinum-group-metal loading at anode: Investigations of operating temperatures and anode Pt/Ru ratios. <i>Journal of Power Sources</i> , <b>2019</b> , 433, 126690	8.9	9
129	Scalable mesoporous silicon microparticles composed of interconnected nanoplates for superior lithium storage. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121923	14.7	21
128	Achieving long-life Prussian blue analogue cathode for Na-ion batteries via triple-cation lattice substitution and coordinated water capture. <i>Nano Energy</i> , <b>2019</b> , 61, 201-210	17.1	63
127	Investigating the Structure of an Active Material/Carbon Interface in the Monoclinic Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C Composite Cathode. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3692-3702	6.1	6
126	Electrochemically-driven interphase conditioning of magnesium electrode for magnesium sulfur batteries. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 37, 215-219	12	17
125	Amorphous carbon-encapsulated Si nanoparticles loading on MCMB with sandwich structure for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 306, 590-598	6.7	31
124	Iodine-doped sulfurized polyacrylonitrile with enhanced electrochemical performance for room-temperature sodium/potassium sulfur batteries. <i>Chemical Communications</i> , <b>2019</b> , 55, 5267-5270	5.8	58
123	Synthesis of Well-Defined Pt-Based Catalysts for Methanol Oxidation Reaction Based on Electron-Hole Separation Effects. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8597-8603	8.3	6
122	Improved Electrochemical Performance of LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> Cathode Material by Coating of Graphene Nanodots. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1038-A1044	3.9	16
121	A porous N-doped carbon aggregate as sulfur host for lithium-sulfur batteries. <i>Ionics</i> , <b>2019</b> , 25, 2131-2138	7	5
120	Scalable submicron/micron silicon particles stabilized in a robust graphite-carbon architecture for enhanced lithium storage. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 555, 783-790	9.3	13
119	Unraveling the Origins of the Unreactive Core in Conversion Electrodes to Trigger High Sodium-Ion Electrochemistry. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2007-2012	20.1	25

118	Single small molecule-assembled nanoparticles mediate efficient oral drug delivery. <i>Nano Research</i> , <b>2019</b> , 12, 2468-2476	10	23
117	Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18647-18653	16.4	29
116	Pseudocapacitive Li <sup>+</sup> storage boosts ultrahigh rate performance of structure-tailored CoFe <sub>2</sub> O <sub>4</sub> @Fe <sub>2</sub> O <sub>3</sub> hollow spheres triggered by engineered surface and near-surface reactions. <i>Nano Energy</i> , <b>2019</b> , 66, 104179	17.1	30
115	Layer-by-Layer Engineered Silicon-Based Sandwich Nanomat as Flexible Anode for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39970-39978	9.5	17
114	Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 18820-18826	3.6	4
113	A quasi-solid-state Li <sup>+</sup> battery with high energy density, superior stability and safety. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6533-6542	13	24
112	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. <i>Small</i> , <b>2019</b> , 15, e1904740	11	69
111	Understanding the Structural Evolution and Lattice Water Movement for Rhombohedral Nickel Hexacyanoferrate upon Sodium Migration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46705-46713	9.5	17
110	Enhanced Electrochemical Performance of LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> Cathode Material via Li <sub>2</sub> TiO <sub>3</sub> Nanoparticles Coating. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A143-A150	3.9	22
109	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> , <b>2019</b> , 777, 190-197	5.7	40
108	Palladium nanocrystals-embedded mesoporous hollow carbon spheres with enhanced electrochemical kinetics for high performance lithium sulfur batteries. <i>Carbon</i> , <b>2019</b> , 143, 878-889	10.4	54
107	A multifunctional silicotungstic acid-modified Li-rich manganese-based cathode material with excellent electrochemical properties. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 101-108	2.6	1
106	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> , <b>2018</b> , 14, e1704282	11	148
105	Enhanced electrochemical performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> through in-situ coating 70Li <sub>2</sub> S-30P <sub>2</sub> S <sub>5</sub> solid electrolyte for all-solid-state lithium batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 752, 8-13	5.7	17
104	Unravelling the Enhanced High-Temperature Performance of Lithium-Rich Oxide Cathode with Methyl Diphenylphosphinite as Electrolyte Additive. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1569-1575	4.3	26
103	Polyaniline-encapsulated silicon on three-dimensional carbon nanotubes foam with enhanced electrochemical performance for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 381, 156-163	8.9	60
102	A two-dimensional nitrogen-rich carbon/silicon composite as high performance anode material for lithium ion batteries. <i>Chemical Engineering Journal</i> , <b>2018</b> , 341, 37-46	14.7	66
101	3D hierarchical Co/CoO/C nanocomposites with mesoporous microsheets grown on nickel foam as cathodes for Li-O <sub>2</sub> batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 749, 378-384	5.7	11

100	The degradation of LiCoO <sub>2</sub> /graphite batteries at different rates. <i>Electrochimica Acta</i> , <b>2018</b> , 279, 204-212.	6.7	21
99	Probing Battery Electrochemistry with In Operando Synchrotron X-Ray Imaging Techniques. <i>Small Methods</i> , <b>2018</b> , 2, 1700293	12.8	44
98	Polymeric multilayer-modified manganese dioxide with hollow porous structure as sulfur host for lithium sulfur batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 259, 440-448	6.7	23
97	Enabling reliable lithium metal batteries by a bifunctional anionic electrolyte additive. <i>Energy Storage Materials</i> , <b>2018</b> , 11, 197-204	19.4	82
96	Pseudocapacitive Li <sup>+</sup> intercalation in porous Ti <sub>2</sub> Nb <sub>10</sub> O <sub>29</sub> nanospheres enables ultra-fast lithium storage. <i>Energy Storage Materials</i> , <b>2018</b> , 11, 57-66	19.4	119
95	Unravelling the Interface Layer Formation and Gas Evolution/Suppression on a TiNbO Anode for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27056-27062	9.5	35
94	Accelerated aging and degradation mechanism of LiFePO <sub>4</sub> /graphite batteries cycled at high discharge rates.. <i>RSC Advances</i> , <b>2018</b> , 8, 25695-25703	3.7	21
93	Excellent room-temperature performance of lithium metal polymer battery with enhanced interfacial compatibility. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 1261-1268	6.7	6
92	Iron sulfide/carbon hybrid cluster as an anode for potassium-ion storage. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 766, 1086-1091	5.7	39
91	Free-Standing Sandwich-Type Graphene/Nanocellulose/Silicon Laminate Anode for Flexible Rechargeable Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29638-29646	9.5	48
90	State of health diagnosis model for lithium ion batteries based on real-time impedance and open circuit voltage parameters identification method. <i>Energy</i> , <b>2018</b> , 144, 647-656	7.9	44
89	Understanding the initial irreversibility of metal sulfides for sodium-ion batteries via operando techniques. <i>Nano Energy</i> , <b>2018</b> , 43, 184-191	17.1	46
88	Enhanced photocatalytic performance of spherical BiOI/MnO composite and mechanism investigation.. <i>RSC Advances</i> , <b>2018</b> , 8, 36161-36166	3.7	15
87	Rapid Prediction of the Open-Circuit-Voltage of Lithium Ion Batteries Based on an Effective Voltage Relaxation Model. <i>Energies</i> , <b>2018</b> , 11, 3444	3.1	9
86	Modifying High-Voltage Olivine-Type LiMnPO <sub>4</sub> Cathode via Mg Substitution in High-Orientation Crystal. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 5928-5935	6.1	15
85	Insights into the role of oxygen functional groups and defects in the rechargeable nonaqueous LiD <sub>2</sub> batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 838-845	6.7	16
84	Toward Promising Turnkey Solution for Next-Generation Lithium Ion Batteries: Scale Preparation, Fading Analysis, and Enhanced Performance of Microsized Si/C Composites. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 6977-6985	6.1	6
83	Bifunctional electrolyte additive KI to improve the cycling performance of LiD <sub>2</sub> batteries. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 17311-17316	3.6	2



82	Cobalt nanoparticle-encapsulated carbon nanowire arrays: Enabling the fast redox reaction kinetics of lithium-sulfur batteries. <i>Carbon</i> , <b>2018</b> , 140, 385-393	10.4	25
81	Accelerated Aging Analysis on Cycle Life of LiFePO <sub>4</sub> /Graphite Batteries Based on Different Rates. <i>ChemElectroChem</i> , <b>2018</b> , 5, 2301-2309	4.3	6
80	Superior performance of ordered macroporous TiNb <sub>2</sub> O <sub>7</sub> anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. <i>Nano Energy</i> , <b>2017</b> , 34, 15-25	17.1	264
79	Improved electrochemical performance of micro-sized SiO <sub>2</sub> -based composite anode by prelithiation of stabilized lithium metal powder. <i>Journal of Power Sources</i> , <b>2017</b> , 347, 170-177	8.9	91
78	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2141-2149	9.6	31
77	Unravelling the origin of irreversible capacity loss in NaNiO <sub>2</sub> for high voltage sodium ion batteries. <i>Nano Energy</i> , <b>2017</b> , 34, 215-223	17.1	69
76	Improved Rate Performance of Lithium Sulfur Batteries by In-Situ Anchoring of Lithium Iodide in Carbon/Sulfur Cathode. <i>Electrochimica Acta</i> , <b>2017</b> , 238, 257-262	6.7	19
75	Facilitating the redox reaction of polysulfides by an electrocatalytic layer-modified separator for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10936-10945	13	65
74	Improved high-voltage performance of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode with Tris(2,2,2-trifluoroethyl) phosphite as electrolyte additive. <i>Electrochimica Acta</i> , <b>2017</b> , 243, 72-81	6.7	22
73	Pseudocapacitive Li <sup>+</sup> intercalation in ZnO/ZnO@C composites enables high-rate lithium-ion storage and stable cyclability. <i>Ceramics International</i> , <b>2017</b> , 43, 11998-12004	5.1	20
72	Electronically Conductive Sb-doped SnO <sub>2</sub> Nanoparticles Coated LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> Cathode Material with Enhanced Electrochemical Properties for Li-ion Batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 236, 273-279	6.7	50
71	Hierarchical ordered macroporous/ultrathin mesoporous carbon architecture: A promising cathode scaffold with excellent rate performance for rechargeable Li-O <sub>2</sub> batteries. <i>Carbon</i> , <b>2017</b> , 118, 139-147	10.4	37
70	Lithium Cobalt Oxides Functionalized by Conductive Al-doped ZnO Coating as Cathode for High-performance Lithium Ion Batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 224, 96-104	6.7	24
69	Prediction Model and Principle of End-of-Life Threshold for Lithium Ion Batteries Based on Open Circuit Voltage Drifts. <i>Electrochimica Acta</i> , <b>2017</b> , 255, 83-91	6.7	7
68	Hydrothermal Self-Assembly Synthesis of Porous SnO <sub>2</sub> /Graphene Nanocomposite as an Anode Material for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 1877-1883	1.3	2
67	Self-doping Ti <sub>1-x</sub> Nb <sub>2+x</sub> O <sub>7</sub> anode material for lithium-ion battery and its electrochemical performance. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 728, 534-540	5.7	27
66	Mixed lithium ion and electron conducting LiAlPO <sub>3.93</sub> F <sub>1.07</sub> -coated LiCoO <sub>2</sub> cathode with improved electrochemical performance. <i>Electrochemistry Communications</i> , <b>2017</b> , 83, 106-109	5.1	21
65	A Mild Surface Washing Method Using Protonated Polyaniline for Ni-rich LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> Material of Lithium Ion Batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 248, 534-540	6.7	67

64	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> , <b>2017</b> , 361, 227-236	8.9	47
63	Clew-like N-doped multiwalled carbon nanotube aggregates derived from metal-organic complexes for lithium-sulfur batteries. <i>Carbon</i> , <b>2017</b> , 122, 635-642	10.4	33
62	Interface Modifications by Tris(2,2,2-trifluoroethyl) Borate for Improving the High-Voltage Performance of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> Cathode. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1924-A1932	3.9	19
61	Micro-sized spherical silicon@carbon@graphene prepared by spray drying as anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 723, 434-440	5.7	67
60	High-rate capability of three-dimensionally ordered macroporous T-Nb <sub>2</sub> O <sub>5</sub> through Li <sup>+</sup> intercalation pseudocapacitance. <i>Journal of Power Sources</i> , <b>2017</b> , 361, 80-86	8.9	106
59	Improved electrochemical performance of NaAlO <sub>2</sub> -coated LiCoO <sub>2</sub> for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 1195-1201	2.6	18
58	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> , <b>2016</b> , 216, 44-50	6.7	27
57	Oxygen vacancies in SnO <sub>2</sub> surface coating to enhance the activation of layered Li-Rich Li <sub>1.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> O <sub>2</sub> cathode material for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 331, 91-99	8.9	75
56	The effect of elevated temperature on the accelerated aging of LiCoO <sub>2</sub> /mesocarbon microbeads batteries. <i>Applied Energy</i> , <b>2016</b> , 177, 1-10	10.7	30
55	Recovery Strategy and Mechanism of Aged Lithium Ion Batteries after Shallow Depth of Discharge at Elevated Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5234-42	9.5	14
54	Facile electrospinning preparation of phosphorus and nitrogen dual-doped cobalt-based carbon nanofibers as bifunctional electrocatalyst. <i>Journal of Power Sources</i> , <b>2016</b> , 311, 68-80	8.9	61
53	Lithium Phosphorus Oxynitride Coated Concentration Gradient Li[Ni <sub>0.73</sub> Co <sub>0.12</sub> Mn <sub>0.15</sub> ]O <sub>2</sub> Cathode Material with Enhanced Electrochemical Properties. <i>Electrochimica Acta</i> , <b>2016</b> , 192, 340-345	6.7	29
52	Facile synthesis of binder-free reduced graphene oxide/silicon anode for high-performance lithium ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 312, 216-222	8.9	25
51	Role of fluorine surface modification in improving electrochemical cyclability of concentration gradient Li[Ni <sub>0.73</sub> Co <sub>0.12</sub> Mn <sub>0.15</sub> ]O <sub>2</sub> cathode material for Li-ion batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 26307-26316	3.7	24
50	Influence of fluoroethylene carbonate as co-solvent on the high-voltage performance of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 8-15	6.7	39
49	A Novel One-dimensional Reduced Graphene Oxide/Sulfur Nanoscroll Material and its Application in Lithium Sulfur Batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 1861-1869	6.7	29
48	Effect of short-time external short circuiting on the capacity fading mechanism during long-term cycling of LiCoO <sub>2</sub> /mesocarbon microbeads battery. <i>Journal of Power Sources</i> , <b>2016</b> , 318, 154-162	8.9	20
47	Understanding undesirable anode lithium plating issues in lithium-ion batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 88683-88700	3.7	204

46	Al <sub>2</sub> O <sub>3</sub> Coated Concentration-Gradient Li[Ni <sub>0.73</sub> Co <sub>0.12</sub> Mn <sub>0.15</sub> ]O <sub>2</sub> Cathode Material by Freeze Drying for Long-Life Lithium Ion Batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 174, 1185-1191	6.7	54
45	Facile synthesis of nanostructured TiNb <sub>2</sub> O <sub>7</sub> anode materials with superior performance for high-rate lithium ion batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 17293-6	5.8	96
44	Electrochemical performance degeneration mechanism of LiCoO <sub>2</sub> with high state of charge during long-term charge/discharge cycling. <i>RSC Advances</i> , <b>2015</b> , 5, 81235-81242	3.7	29
43	Capacity fading mechanism during long-term cycling of over-discharged LiCoO <sub>2</sub> /mesocarbon microbeads battery. <i>Journal of Power Sources</i> , <b>2015</b> , 293, 1006-1015	8.9	67
42	Lithium-rich Li <sub>1.2</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> Mn <sub>0.54</sub> O <sub>2</sub> oxide coated by Li <sub>3</sub> PO <sub>4</sub> and carbon nanocomposite layers as high performance cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2634-2641	13	92
41	Improved electrochemical performance and capacity fading mechanism of nano-sized LiMn <sub>0.9</sub> Fe <sub>0.1</sub> PO <sub>4</sub> cathode modified by polyacene coating. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 1569 <sup>13</sup> 1579 <sup>55</sup>	13	55
40	A novel nanoporous Fe-doped lithium manganese phosphate material with superior long-term cycling stability for lithium-ion batteries. <i>Nanoscale</i> , <b>2015</b> , 7, 11509-14	7.7	34
39	High-performance carbon-coated LiMnPO <sub>4</sub> nanocomposites by facile two-step solid-state synthesis for lithium-ion battery. <i>Journal of Solid State Electrochemistry</i> , <b>2015</b> , 19, 281-288	2.6	18
38	Direct Observation of Sulfur Radicals as Reaction Media in Lithium Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A474-A478	3.9	155
37	Optimized Operating Range for Large-Format LiFePO <sub>4</sub> /Graphite Batteries. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, A336-A341	3.9	27
36	Lithium deposition on graphite anode during long-term cycles and the effect on capacity loss. <i>RSC Advances</i> , <b>2014</b> , 4, 26335-26341	3.7	29
35	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> , <b>2014</b> , 2, 15640	13	65
34	Degradation mechanism of LiCoO <sub>2</sub> /mesocarbon microbeads battery based on accelerated aging tests. <i>Journal of Power Sources</i> , <b>2014</b> , 268, 816-823	8.9	35
33	Lithium compound deposition on mesocarbon microbead anode of lithium ion batteries after long-term cycling. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12962-70	9.5	26
32	Enhancement of high voltage cycling performance and thermal stability of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode by use of boron-based additives. <i>Solid State Ionics</i> , <b>2014</b> , 263, 146-151	3.3	40
31	Interface modifications by anion receptors for high energy lithium ion batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 250, 313-318	8.9	61
30	Improved electrochemical performance of nano-crystalline Li <sub>2</sub> FeSiO <sub>4</sub> /C cathode material prepared by the optimization of sintering temperature. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 1955-1959 <sup>6</sup>	2.6	13
29	Corrosion/fragmentation of layered composite cathode and related capacity/voltage fading during cycling process. <i>Nano Letters</i> , <b>2013</b> , 13, 3824-30	11.5	311

28	High-performance LiFePO <sub>4</sub> cathode material from FePO <sub>4</sub> microspheres with carbon nanotube networks embedded for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 223, 100-106	8.9	67
27	Electrochemical Kinetics and Performance of Layered Composite Cathode Material Li[Li <sub>0.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> ]O <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A2212-A2219	3.9	80
26	Fluoroethylene carbonate as electrolyte additive to improve low temperature performance of LiFePO <sub>4</sub> electrode. <i>Electrochimica Acta</i> , <b>2013</b> , 87, 466-472	6.7	100
25	Ascorbic acid-assisted solvothermal synthesis of LiMn <sub>0.9</sub> Fe <sub>0.1</sub> PO <sub>4</sub> /C nanoplatelets with enhanced electrochemical performance for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 243, 872-879	8.9	36
24	Controlled Nucleation and Growth Process of Li <sub>2</sub> S <sub>2</sub> /Li <sub>2</sub> S in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1992-A1996	3.9	82
23	Revisit Carbon/Sulfur Composite for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1624-A1628	3.9	89
22	Effects of fluoroethylene carbonate on low temperature performance of mesocarbon microbeads anode. <i>Electrochimica Acta</i> , <b>2012</b> , 74, 260-266	6.7	42
21	Effects of carbon on the structure and electrochemical performance of Li <sub>2</sub> FeSiO <sub>4</sub> cathode materials for lithium-ion batteries. <i>RSC Advances</i> , <b>2012</b> , 2, 6994	3.7	27
20	Effects of VC-LiBOB binary additives on SEI formation in ionic liquid/organic composite electrolyte. <i>RSC Advances</i> , <b>2012</b> , 2, 4097	3.7	12
19	The effects of functional ionic liquid on properties of solid polymer electrolyte. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 128, 250-255	4.4	19
18	Effect of heat treatment temperature on microstructure and electrochemical properties of hollow carbon spheres prepared in high-pressure argon. <i>Bulletin of Materials Science</i> , <b>2011</b> , 34, 1707-1714	1.7	3
17	Enhancement of the electrochemical performance of silicon/carbon composite material for lithium ion batteries. <i>Ionics</i> , <b>2011</b> , 17, 87-90	2.7	22
16	Enhanced lithium storage performance of silicon anode via fabricating into sandwich electrode. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 4403-4407	6.7	17
15	The effects of LiBOB additive for stable SEI formation of PP13TFSI-organic mixed electrolyte in lithium ion batteries. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 4841-4848	6.7	44
14	Nanosized core/shell silicon@carbon anode material for lithium ion batteries with polyvinylidene fluoride as carbon source. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3216		146
13	Simple annealing process for performance improvement of silicon anode based on polyvinylidene fluoride binder. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 2069-2073	8.9	36
12	Improvement of cycle performance for silicon/carbon composite used as anode for lithium ion batteries. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 115, 757-760	4.4	23
11	Investigations of Compositions and Performance of PtRuMo/C Ternary Catalysts for Methanol Electrooxidation. <i>Fuel Cells</i> , <b>2009</b> , 9, 106-113	2.9	40

10	A self-assembly template approach for preparing hollow carbon microspheres. <i>Journal of Solid State Electrochemistry</i> , <b>2009</b> , 13, 497-501	2.6	3
9	A Phosphorous Additive for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , <b>2008</b> , 11, A129		13
8	Electrochemical investigation of silicon/carbon composite as anode material for lithium ion batteries. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 3149-3152	4.3	13
7	Electrochemical stability of silicon/carbon composite anode for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 4878-4883	6.7	59
6	Synthesis and electrochemical performance of Si/Cu and Si/Cu/graphite composite anode. <i>Materials Chemistry and Physics</i> , <b>2007</b> , 104, 444-447	4.4	29
5	Electrochemical reaction of the SiMn/C composite for anode in lithium ion batteries. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 1527-1531	6.7	12
4	SiMn composite anodes for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 414, 265-268	5.7	30
3	Ultrathin Si Nanosheets Dispersed in Graphene Matrix Enable Stable Interface and High Rate Capability of Anode for Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2110046	15.6	8
2	Tracking Battery Dynamics by Operando Synchrotron X-ray Imaging: Operation from Liquid Electrolytes to Solid-State Electrolytes. <i>Accounts of Materials Research</i> ,	7.5	1
1	Tailoring Porous Transition Metal Oxide for High-Performance Lithium Storage. <i>Journal of Physical Chemistry C</i> ,	3.8	4