

# Jun Liu

## 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.

230  
papers

23,301  
citations

76  
h-index

150  
g-index

246  
ext. papers

27,294  
ext. citations

10.9  
avg, IF

7.16  
L-index

#	Paper	IF	Citations
230	Functional catalysts for polysulfide conversion in LiS batteries: from micro/nanoscale to single atom. <i>Rare Metals</i> , <b>2022</b> , 41, 1080	5.5	2
229	A Self-Supporting Covalent Organic Framework Separator with Desolvation Effect for High Energy Density Lithium Metal Batteries. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 885-896	20.1	13
228	In-Situ Synthesis of Carbon-Encapsulated Atomic Cobalt as Highly Efficient Polysulfide Electrocatalysts for Highly Stable Lithium-Sulfur Batteries.. <i>Small</i> , <b>2022</b> , e2106640	11	6
227	Pomegranate-like structured NbO/Carbon@N-doped carbon composites as ultrastable anode for advanced sodium/potassium-ion batteries.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 613, 84-93	9.3	2
226	Phase tuning of P2/O3-type layered oxide cathode for sodium ion batteries via a simple Li/F co-doping route. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134273	14.7	2
225	Microstructures constructed by MoSe <sub>2</sub> /C nanoplates sheathed in N-doped carbon for efficient sodium (potassium) storage. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 890, 161746	5.7	3
224	Synergistic Effect of Lithium Salts with Fillers and Solvents in Composite Electrolytes for Superior Room-Temperature Solid-State Lithium Batteries. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 2484-2494	6.1	7
223	In Situ Construction a Stable Protective Layer in Polymer Electrolyte for Ultralong Lifespan Solid-State Lithium Metal Batteries.. <i>Advanced Science</i> , <b>2022</b> , e2104277	13.6	11
222	Advances in the Development of Single-Atom Catalysts for High-Energy-Density Lithium-Sulfur Batteries.. <i>Advanced Materials</i> , <b>2022</b> , e2200102	24	13
221	Self-Sacrifice Template Construction of Uniform Yolk-Shell ZnS@C for Superior Alkali-Ion Storage.. <i>Advanced Science</i> , <b>2022</b> , e2200247	13.6	3
220	Construction of SnS-Mo-graphene nanosheets composite for highly reversible and stable lithium/sodium storage. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 121, 190-198	9.1	1
219	Structural Evolution in P2-type Layered Oxide Cathode Materials for Sodium-Ion Batteries. <i>ChemNanoMat</i> , <b>2022</b> , 8,	3.5	0
218	Insight into Reversible Conversion Reactions in SnO -Based Anodes for Lithium Storage: A Review.. <i>Small</i> , <b>2022</b> , e2201110	11	1
217	Challenges and Modification Strategies of Ni-Rich Cathode Materials Operating at High-Voltage. <i>Nanomaterials</i> , <b>2022</b> , 12, 1888	5.4	4
216	SnSex (x = 1, 2) Nanoparticles Encapsulated in Carbon Nanospheres with reversible electrochemical behaviors for lithium-ion half/full cells. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133463	14.7	1
215	Scalable synthesis of Li <sub>2</sub> GeO <sub>3</sub> /expanded graphite as a high-performance anode for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 898, 162893	5.7	1
214	Reversible formation of metastable Sn-rich solid solution in SnO <sub>2</sub> -based anode for high-performance lithium storage. <i>Applied Materials Today</i> , <b>2021</b> , 25, 101242	6.6	2

213	Challenges and Development of Composite Solid Electrolytes for All-solid-state Lithium Batteries. <i>Chemical Research in Chinese Universities</i> , <b>2021</b> , 37, 210-231	2.2	4
212	Subzero temperature promotes stable lithium storage in SnO <sub>2</sub> . <i>Energy Storage Materials</i> , <b>2021</b> , 36, 242-250	2.4	17
211	Unraveling the Catalytic Activity of Fe-Based Compounds toward Li <sub>2</sub> S <sub>x</sub> in Li-S Chemical System from d <sub>π</sub> Bands. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100673	21.8	29
210	Li <sub>2</sub> CO <sub>3</sub> induced stable SEI formation: An efficient strategy to boost reversibility and cyclability of Li storage in SnO <sub>2</sub> anodes. <i>Science China Materials</i> , <b>2021</b> , 64, 2683-2696	7.1	5
209	Substantial Doping Engineering in Layered LiNi <sub>0.5+x</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 060534	3.9	3
208	In-situ introducing TiP <sub>2</sub> nanocrystals in black phosphorus anode to promote high rate-capacity synergy. <i>Journal of Power Sources</i> , <b>2021</b> , 499, 229979	8.9	4
207	Direct Detection and Visualization of the H <sub>2</sub> Reaction Process in a VO Cathode for Aqueous Zinc-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 7076-7084	6.4	1
206	Self-supported hierarchical porous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /carbon arrays for boosted lithium ion storage. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 54, 754-760	12	16
205	Boosted lithium storage cycling stability of TiP <sub>2</sub> by in-situ partial self-decomposition and nano-spatial confinement. <i>Journal of Power Sources</i> , <b>2021</b> , 485, 229337	8.9	7
204	A nanorod-like Ni-rich layered cathode with enhanced Li <sup>+</sup> diffusion pathways for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2830-2839	13	26
203	Stable Lithium Storage at Subzero Temperatures for High-capacity Co <sub>3</sub> O <sub>4</sub> @graphene Composite Anodes. <i>ChemNanoMat</i> , <b>2021</b> , 7, 61-70	3.5	10
202	Deciphering the Oxygen Absorption Pre-edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. <i>Energy and Environmental Materials</i> , <b>2021</b> , 4, 246-254	13	24
201	Cathodes for Aqueous Zn-Ion Batteries: Materials, Mechanisms, and Kinetics. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 830-860	4.8	31
200	Facile Synthesis of Yolk-Shell Bi@C Nanospheres with Superior Li-ion Storage Performances. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 347-353	2.5	1
199	Challenges and strategies of zinc anode for aqueous zinc-ion batteries. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 2201-2217	7.8	7
198	Freestanding Sodium Vanadate/Carbon Nanotube Composite Cathodes with Excellent Structural Stability and High Rate Capability for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 816-826	9.5	8
197	Ultrafine ZnS Nanoparticles in the Nitrogen-Doped Carbon Matrix for Long-Life and High-Stable Potassium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 11007-11017	9.5	12
196	Surface/Interface Structure and Chemistry of Lithium-Sulfur Batteries: From Density Functional Theory Calculations Perspective. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100007	1.6	9

195	LiB Batteries: Unraveling the Catalytic Activity of Fe-Based Compounds toward Li <sub>2</sub> S <sub>x</sub> in LiB Chemical System from d <sub>π</sub> Bands (Adv. Energy Mater. 26/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170101	21.8	1
194	Ultralow Volume Change of P2-Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 20960-20969	16.4	14
193	Ultralow Volume Change of P2-Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na <sup>+</sup> . <i>Angewandte Chemie</i> , <b>2021</b> , 133, 21128-21137	3.6	5
192	Synthesis of amorphous SeP <sub>2</sub> /C composite by plasma assisted ball milling for high-performance anode materials of lithium and sodium-ion batteries. <i>Progress in Natural Science: Materials International</i> , <b>2021</b> , 31, 567-574	3.6	1
191	Multifunctional Metal Phosphides as Superior Host Materials for Advanced Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 13494-13512	4.8	5
190	Fluorine-substituted O3-type NaNi <sub>0.4</sub> Mn <sub>0.25</sub> Ti <sub>0.3</sub> Co <sub>0.05</sub> O <sub>2</sub> B cathode with improved rate capability and cyclic stability for sodium-ion storage at high voltage. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 341-350	12	6
189	Fabrication of ZnSe/C Hollow Polyhedrons for Lithium Storage. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 14989-14995	4.8	1
188	Interface engineering for composite cathodes in sulfide-based all-solid-state lithium batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 32-60	12	18
187	Ni-Rich Layered Oxide with Preferred Orientation (110) Plane as a Stable Cathode Material for High-Energy Lithium-Ion Batteries. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
186	Scalable One-Pot Synthesis of Hierarchical Bi@C Bulk with Superior Lithium-Ion Storage Performances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 51478-51487	9.5	9
185	SnS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> /graphite nanocomposites as durable lithium-ion battery anode with high pseudocapacitance contribution. <i>Electrochimica Acta</i> , <b>2020</b> , 349, 136369	6.7	11
184	Structural and Electrochemical Properties of Low-Cobalt-Content LiNiCoMnO (0.0 $\leq$ x $\leq$ 0.1) Cathodes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28253-28263	9.5	13
183	Flowerlike Ti-Doped MoO <sub>3</sub> Conductive Anode Fabricated by a Novel NiTi Dealloying Method: Greatly Enhanced Reversibility of the Conversion and Intercalation Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 8240-8248	9.5	4
182	Regulating Lithium Nucleation and Deposition via MOF-Derived Co@C-Modified Carbon Cloth for Stable Li Metal Anode. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909159	15.6	87
181	Recent Progress of P2-Type Layered Transition-Metal Oxide Cathodes for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 7747-7766	4.8	35
180	Construction of TiP <sub>2</sub> O <sub>7</sub> nanosheets/rGO hierarchical Flower-like heterostructures for superfast and ultralong lithiation/delithiation process. <i>Applied Surface Science</i> , <b>2020</b> , 513, 145854	6.7	4
179	B,N Codoped Graphitic Nanotubes Loaded with Co Nanoparticles as Superior Sulfur Host for Advanced Li-S Batteries. <i>Small</i> , <b>2020</b> , 16, e1906634	11	32
178	Self-sacrificial template-directed ZnSe@C as high performance anode for potassium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124061	14.7	31

177	High-performance PVDF-HFP based gel polymer electrolyte with a safe solvent in Li metal polymer battery. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 49, 80-88	12	67
176	Recent Progress in Organic-Inorganic Composite Solid Electrolytes for All-Solid-State Lithium Batteries. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 1720-1736	4.8	54
175	Good cycling stability and high initial efficiency demonstrated in full cells with limited lithium source for an advanced SnO <sub>2</sub> /Co composite anode. <i>Electrochimica Acta</i> , <b>2020</b> , 334, 135640	6.7	6
174	An atomic-confined-space separator for high performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1896-1903	13	25
173	Monodisperse CoSn and NiSn Nanoparticles Supported on Commercial Carbon as Anode for Lithium- and Potassium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 4414-4422	9.5	24
172	Recent progress of flexible sulfur cathode based on carbon host for lithium-sulfur batteries. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 55, 56-72	9.1	29
171	Hollow spheres of Mo <sub>2</sub> C@C as synergistically confining sulfur host for superior LiS battery cathode. <i>Electrochimica Acta</i> , <b>2020</b> , 332, 135482	6.7	20
170	Dual-Carbon-Confined SnS Nanostructure with High Capacity and Long Cycle Life for Lithium-ion Batteries. <i>Energy and Environmental Materials</i> , <b>2020</b> ,	13	8
169	Fe O @C Nanotubes Grown on Carbon Fabric as a Free-Standing Anode for High-Performance Li-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 14708-14714	4.8	9
168	A flexible composite solid electrolyte with a highly stable interphase for dendrite-free and durable all-solid-state lithium metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18043-18054	13	38
167	A Scalable Approach to Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> @Carbon/Expanded Graphite as a Low-Cost and High-Performance Cathode for Sodium-Ion Batteries. <i>ChemElectroChem</i> , <b>2020</b> , 7, 3874-3882	4.3	11
166	Micro-sized FeS <sub>2</sub> @FeSO <sub>4</sub> core-shell composite for advanced lithium storage. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 814, 151922	5.7	4
165	Solvent-Free Method Prepared a Sandwich-like Nanofibrous Membrane-Reinforced Polymer Electrolyte for High-Performance All-Solid-State Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 21586-21595	9.5	24
164	Adding Metal Carbides to Suppress the Crystalline LiSi Formation: A Route toward Cycling Durable Si-Based Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 38727-38738	8.5	17
163	GO@Se@Ni Cathode Materials for Lithium-Selenium Battery. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A5259-A5264	3.9	5
162	Co-Sn Nanocrystalline Solid Solutions as Anode Materials in Lithium-Ion Batteries with High Pseudocapacitive Contribution. <i>ChemSusChem</i> , <b>2019</b> , 12, 1451-1458	8.3	25
161	Co-Substitution Enhances the Rate Capability and Stabilizes the Cyclic Performance of O <sub>3</sub> -Type Cathode NaNiMnTiCo O for Sodium-Ion Storage at High Voltage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 7906-7913	9.5	33
160	Nano-spatially confined and interface-controlled lithiation/delithiation in an in situ formed (SnS <sub>2</sub> /S <sub>2</sub> )/FLG composite: a route to an ultrafast and cycle-stable anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15320-15332	13	24

159	Self-Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902228	24	149
158	Facile Synthesis of Peapod-Like Cu Ge/Ge@C as a High-Capacity and Long-Life Anode for Li-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 11486-11493	4.8	11
157	Facile synthesis of three-dimensional porous interconnected carbon matrix embedded with Sb nanoparticles as superior anode for Na-ion batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 502-510	14.7	27
156	Joint Charge Storage for High-Rate Aqueous Zinc-Manganese Dioxide Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900567	24	163
155	Gel-assisted synthesis of Cu Co S nanosheets for lithium-ion batteries. <i>Applied Surface Science</i> , <b>2019</b> , 488, 537-545	6.7	5
154	Plasma milling modified Sb <sub>2</sub> S <sub>3</sub> -graphite nanocomposite as a highly reversible alloying-conversion anode material for lithium storage. <i>Electrochimica Acta</i> , <b>2019</b> , 310, 26-37	6.7	13
153	Robust spindle-structured FeP@C for high-performance alkali-ion batteries anode. <i>Electrochimica Acta</i> , <b>2019</b> , 312, 224-233	6.7	37
152	Compositionally tuned Ni <sub>x</sub> Sn alloys as anode materials for lithium-ion and sodium-ion batteries with a high pseudocapacitive contribution. <i>Electrochimica Acta</i> , <b>2019</b> , 304, 246-254	6.7	35
151	Mechanistic Understanding of Metal Phosphide Host for Sulfur Cathode in High-Energy-Density Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2019</b> , 13, 8986-8996	16.7	129
150	Capacity Fading of Ni-Rich NCA Cathodes: Effect of Microcracking Extent. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2995-3001	20.1	138
149	MOF-derived hollow TiO <sub>2</sub> @C/FeTiO <sub>3</sub> nanoparticles as photoanodes with enhanced full spectrum light PEC activities. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 250, 369-381	21.8	50
148	Rational synthesis of ternary FeS@TiO <sub>2</sub> @C nanotubes as anode for superior Na-ion batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 765-774	14.7	43
147	An EOG-based wheelchair robotic arm system for assisting patients with severe spinal cord injuries. <i>Journal of Neural Engineering</i> , <b>2019</b> , 16, 026021	5	17
146	Dramatically Enhanced Li-Ion Storage of ZnO@C Anodes through TiO Homogeneous Hybridization. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 582-589	4.8	9
145	MoS <sub>2</sub> nanosheets with expanded interlayer spacing for rechargeable aqueous Zn-ion batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 19, 94-101	19.4	227
144	High sulfur loading in activated bamboo-derived porous carbon as a superior cathode for rechargeable LiS batteries. <i>Arabian Journal of Chemistry</i> , <b>2019</b> , 12, 3517-3525	5.9	7
143	C@MoS <sub>2</sub> @PPy sandwich-like nanotube arrays as an ultrastable and high-rate flexible anode for Li/Na-ion batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 14, 118-128	19.4	43
142	A General Metal-Organic Framework (MOF)-Derived Selenidation Strategy for In Situ Carbon-Encapsulated Metal Selenides as High-Rate Anodes for Na-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707573	15.6	239

141	Highly reversible conversion reaction in Sn <sub>2</sub> Fe@SiO <sub>x</sub> nanocomposite: A high initial Coulombic efficiency and long lifetime anode for lithium storage. <i>Energy Storage Materials</i> , <b>2018</b> , 13, 257-266	19.4	25
140	Enabling a highly reversible conversion reaction in a lithiated nano-SnO <sub>2</sub> film coated with Al <sub>2</sub> O <sub>3</sub> by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4374-4385	13	23
139	Rational synthesis of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /N-C nanotube arrays as advanced high-rate electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3857-3863	13	42
138	Sodium Ion Stabilized Vanadium Oxide Nanowire Cathode for High-Performance Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702463	21.8	454
137	Unveiling critical size of coarsened Sn nanograins for achieving high round-trip efficiency of reversible conversion reaction in lithiated SnO <sub>2</sub> nanocrystals. <i>Nano Energy</i> , <b>2018</b> , 45, 255-265	17.1	65
136	Low-Defect and Low-Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703238	21.8	262
135	High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706102	24	452
134	A scalable ternary SnO <sub>2</sub> @TiO <sub>2</sub> composite as a high initial coulombic efficiency, large capacity and long lifetime anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7206-7220	13	56
133	Nanoconfined Oxidation Synthesis of N-Doped Carbon Hollow Spheres and MnO Encapsulated Sulfur Cathode for Superior Li-S Batteries. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 4573-4582	4.8	33
132	Water-Lubricated Intercalation in V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O for High-Capacity and High-Rate Aqueous Rechargeable Zinc Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703725	24	725
131	AgP <sub>2</sub> /C as an anode for high rate performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 762, 246-253	5.7	11
130	A nanorod FeP@phosphorus-doped carbon composite for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 763, 296-304	5.7	23
129	Stable cycling of high-voltage lithium metal batteries in ether electrolytes. <i>Nature Energy</i> , <b>2018</b> , 3, 739-746	46.3	466
128	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for High-Performance Li-Ion Batteries. <i>Small</i> , <b>2018</b> , 14, e1800793	11	73
127	Stabilizing the Nanostructure of SnO Anodes by Transition Metals: A Route to Achieve High Initial Coulombic Efficiency and Stable Capacities for Lithium Storage. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605006	24	246
126	A ZnGeP <sub>2</sub> /C anode for lithium-ion and sodium-ion batteries. <i>Electrochemistry Communications</i> , <b>2017</b> , 77, 85-88	5.1	33
125	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolk-Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 2034-2042	11.5	306
124	Amorphous FeF <sub>3</sub> /C nanocomposite cathode derived from metal-organic frameworks for sodium ion batteries. <i>RSC Advances</i> , <b>2017</b> , 7, 24004-24010	3.7	30

123	Ilmenite Nanotubes for High Stability and High Rate Sodium-Ion Battery Anodes. <i>ACS Nano</i> , <b>2017</b> , 11, 5120-5129	16.7	84
122	Design of porous Si/C/graphite electrodes with long cycle stability and controlled swelling. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1427-1434	35.4	103
121	Transition-metal redox evolution in LiNi <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> electrodes at high potentials. <i>Journal of Power Sources</i> , <b>2017</b> , 360, 294-300	8.9	47
120	MoS <sub>2</sub> /cotton-derived carbon fibers with enhanced cyclic performance for sodium-ion batteries. <i>Applied Surface Science</i> , <b>2017</b> , 413, 169-174	6.7	21
119	Facile synthesis of self-supported Mn <sub>3</sub> O <sub>4</sub> @C nanotube arrays constituting an ultrastable and high-rate anode for flexible Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8555-8565	13	35
118	Self-Supported CoP Nanorod Arrays Grafted on Stainless Steel as an Advanced Integrated Anode for Stable and Long-Life Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5198-5204	4.8	65
117	Metal-Organic Framework-Derived NiSb Alloy Embedded in Carbon Hollow Spheres as Superior Lithium-Ion Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2516-2525	9.5	95
116	Hollow bean-pod-like SiO <sub>2</sub> -supported-SnO <sub>2</sub> /C nanocomposites for durable lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1629-1636	13	36
115	MoS <sub>2</sub> Nanosheets with Conformal Carbon Coating as Stable Anode Materials for Sodium-Ion Batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 254, 172-180	6.7	44
114	Non-encapsulation approach for high-performance LiS batteries through controlled nucleation and growth. <i>Nature Energy</i> , <b>2017</b> , 2, 813-820	62.3	256
113	Effects of Anion Mobility on Electrochemical Behaviors of Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9023-9029	9.6	28
112	Inhibiting grain coarsening and inducing oxygen vacancies: the roles of Mn in achieving a highly reversible conversion reaction and a long life SnO <sub>2</sub> /Mn/graphite ternary anode. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2017-2029	35.4	120
111	Robust Pitaya-Structured Pyrite as High Energy Density Cathode for High-Rate Lithium Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 9033-9040	16.7	200
110	Facile synthesis of uniform MoO <sub>2</sub> /Mo <sub>2</sub> C <sub>x</sub> heteromicrospheres as high-performance anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 363, 392-403	8.9	26
109	From ZnSn(OH) <sub>6</sub> to SnS <sub>2</sub> : Topotactic transformation synthesis of SnS <sub>2</sub> hierarchical microcubes with superior Li-ion storage performance. <i>Materials Research Bulletin</i> , <b>2017</b> , 96, 28-34	5.1	8
108	Na <sub>0.33</sub> V <sub>2</sub> O <sub>5</sub> nanosheet/graphene composites: Towards high performance cathode materials for sodium ion batteries. <i>Materials Letters</i> , <b>2016</b> , 183, 346-350	3.3	14
107	Yolk-Shell Sn@C Egg-like Nanostructure: Application in Lithium-Ion and Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19438-45	9.5	109
106	Hierarchical MoO <sub>2</sub> /Mo <sub>2</sub> C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19987-93	9.5	78



105	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	1461
104	In situ carbon-coating and Ostwald ripening-based route for hollow Ni <sub>3</sub> S <sub>4</sub> @C spheres with superior Li-ion storage performances. <i>RSC Advances</i> , <b>2016</b> , 6, 101752-101759	3.7	21
103	Reduced graphene oxide anchored tin sulfide hierarchical microspheres with superior Li-ion storage performance. <i>Ionics</i> , <b>2016</b> , 22, 1811-1818	2.7	15
102	Uniform Hierarchical Fe <sub>3</sub> O <sub>4</sub> @Polypyrrole Nanocages for Superior Lithium Ion Battery Anodes. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600256	21.8	152
101	Sandwich-like SnS/Polypyrrole Ultrathin Nanosheets as High-Performance Anode Materials for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8502-10	9.5	115
100	Improved coulombic efficiency and cycleability of SnO <sub>2</sub> @graphite composite anode with dual scale embedding structure. <i>RSC Advances</i> , <b>2016</b> , 6, 13384-13391	3.7	16
99	Hierarchical MoO <sub>2</sub> /N-doped carbon heteronanowires with high rate and improved long-term performance for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 306, 78-84	8.9	92
98	Restricting the Solubility of Polysulfides in Li-S Batteries Via Electrolyte Salt Selection. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600160	21.8	57
97	MOF-Derived Hollow Co <sub>9</sub> S <sub>8</sub> Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li-Ion Storage. <i>Small</i> , <b>2016</b> , 12, 2354-64	11	274
96	MOFs nanosheets derived porous metal oxide-coated three-dimensional substrates for lithium-ion battery applications. <i>Nano Energy</i> , <b>2016</b> , 26, 57-65	17.1	187
95	Enhanced cyclic performance of SnO <sub>2</sub> -CuO-graphite nano-sheets as anode for Li-ion battery. <i>Materials Letters</i> , <b>2016</b> , 185, 9-12	3.3	21
94	The importance of solid electrolyte interphase formation for long cycle stability full-cell Na-ion batteries. <i>Nano Energy</i> , <b>2016</b> , 27, 664-672	17.1	33
93	Effects of TiO <sub>2</sub> phase on the performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 689, 812-819	5.7	29
92	Facile Synthesis of Na <sub>0.33</sub> V <sub>2</sub> O <sub>5</sub> Nanosheet-Graphene Hybrids as Ultrahigh Performance Cathode Materials for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17433-40	9.5	65
91	Scalable synthesis of Li <sub>1.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> O <sub>2</sub> /LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> sphere composites as stable and high capacity cathodes for Li-ion batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 84673-84679	3.7	16
90	Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanosheets as high-rate and long-life anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24446-24452	13	57
89	Three-dimensionally interconnected nickel-antimony intermetallic hollow nanospheres as anode material for high-rate sodium-ion batteries. <i>Nano Energy</i> , <b>2015</b> , 16, 389-398	17.1	137
88	Uniform yolk-shell Sn <sub>4</sub> P <sub>3</sub> @C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3531-3538	35.4	350

87	Why LiFePO <sub>4</sub> is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 26369-77	3.6	46
86	In Situ Synthesis of MnS Hollow Microspheres on Reduced Graphene Oxide Sheets as High-Capacity and Long-Life Anodes for Li- and Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20952-54	2.5	179
85	Energy Storage Materials from Nature through Nanotechnology: A Sustainable Route from Reed Plants to a Silicon Anode for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9768-9772	3.6	68
84	Energy Storage Materials from Nature through Nanotechnology: A Sustainable Route from Reed Plants to a Silicon Anode for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9632-6	16.4	214
83	Facile synthesis of P2-type Na <sub>0.4</sub> Mn <sub>0.54</sub> Co <sub>0.46</sub> O <sub>2</sub> as a high capacity cathode material for sodium-ion batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 51454-51460	3.7	44
82	Wheat straw carbon matrix wrapped sulfur composites as a superior cathode for LiB batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 100089-100096	3.7	29
81	In situ reduction and coating of SnS <sub>2</sub> nanobelts for free-standing SnS@polypyrrole-nanobelt/carbon-nanotube paper electrodes with superior Li-ion storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5259-5265	13	85
80	Self-supported Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -C nanotube arrays as high-rate and long-life anode materials for flexible Li-ion batteries. <i>Nano Letters</i> , <b>2014</b> , 14, 2597-603	11.5	365
79	Rational synthesis of three-dimensional porous ZnCo <sub>2</sub> O <sub>4</sub> film with nanowire walls via simple hydrothermal method. <i>Materials Letters</i> , <b>2014</b> , 115, 208-211	3.3	23
78	Manipulating surface reactions in lithium-sulphur batteries using hybrid anode structures. <i>Nature Communications</i> , <b>2014</b> , 5, 3015	17.4	267
77	Facile synthesis of highly porous Ni-Sn intermetallic microcages with excellent electrochemical performance for lithium and sodium storage. <i>Nano Letters</i> , <b>2014</b> , 14, 6387-92	11.5	227
76	Electrospun Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C nanofibers as stable cathode materials for sodium-ion batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 5081-6	7.7	235
75	Ge/C nanowires as high-capacity and long-life anode materials for Li-ion batteries. <i>ACS Nano</i> , <b>2014</b> , 8, 7051-9	16.7	177
74	Lewis acid-base interactions between polysulfides and metal organic framework in lithium sulfur batteries. <i>Nano Letters</i> , <b>2014</b> , 14, 2345-52	11.5	529
73	Mesoporous silicon sponge as an anti-pulverization structure for high-performance lithium-ion battery anodes. <i>Nature Communications</i> , <b>2014</b> , 5, 4105	17.4	646
72	Carbon-encapsulated pyrite as stable and earth-abundant high energy cathode material for rechargeable lithium batteries. <i>Advanced Materials</i> , <b>2014</b> , 26, 6025-30	24	192
71	V <sub>2</sub> O <sub>5</sub> Polysulfide Anion Barrier for Long-Lived LiB Batteries. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3403-3410	9.6	176
70	Facile Synthesis of Carbon-Encapsulated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> @C Hollow Microspheres as Superior Anode Materials for Li-Ion Batteries. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 2073-2079	2.3	18

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67	Iron fluoride hollow porous microspheres: facile solution-phase synthesis and their application for Li-ion battery cathodes. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 5815-20	4.8	44
66	Tiny Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanoparticles embedded in carbon nanofibers as high-capacity and long-life anode materials for both Li-ion and Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 20813-8	3.6	71
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61	Gram-scale and template-free synthesis of ultralong tin disulfide nanobelts and their lithium ion storage performances. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1117-1122	13	60
60	Dendrite-free lithium deposition via self-healing electrostatic shield mechanism. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 4450-6	16.4	1374
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58	Electrospun Spinel LiNi Mn O Hierarchical Nanofibers as 5 V Cathode Materials for Lithium-Ion Batteries. <i>ChemPlusChem</i> , <b>2013</b> , 78, 636-641	2.8	31
57	Facile synthesis of transition-metal oxide nanocrystals embedded in hollow carbon microspheres for high-rate lithium-ion-battery anodes. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9811-6	4.8	46
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40	Advanced Nanostructured Cathode and Anode Materials for High-Performance Li-Ion Batteries. <i>Energy and Environment Focus</i> , <b>2012</b> , 1, 19-38		3
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14	Hollow Nanostructured Anode Materials for Li-Ion Batteries. <i>Nanoscale Research Letters</i> , <b>2010</b> , 5, 1525-34		166
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12	Sn-based nanomaterials converted from SnS nanobelts: Facile synthesis, characterizations, optical properties and energy storage performances. <i>Electrochimica Acta</i> , <b>2010</b> , 56, 243-250	6.7	82
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