

# Shenglin Xiong

## 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.

165  
papers

9,669  
citations

51  
h-index

95  
g-index

172  
ext. papers

12,489  
ext. citations

11.8  
avg, IF

6.92  
L-index

#	Paper	IF	Citations
165	NiSe <sub>2</sub> /FeSe <sub>2</sub> heterostructured nanoparticles supported on rGO for efficient water electrolysis. <i>Inorganic Chemistry Frontiers</i> , <b>2022</b> , 9, 448-457	6.8	4
164	MXene/Organics Heterostructures Enable Ultrastable and High-Rate Lithium/Sodium Batteries.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	5
163	Self-assembled, highly-lithiophilic and well-aligned biomass engineered MXene paper enables dendrite-free lithium metal anode in carbonate-based electrolyte. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 69, 221-221	12	4
162	One-Step, Vacuum-Assisted Construction of Micrometer-Sized Nanoporous Silicon Confined by Uniform Two-Dimensional N-Doped Carbon toward Advanced Li Ion and MXene-Based Li Metal Batteries.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	5
161	Room-temperature liquid metal engineered iron current collector enables stable and dendrite-free sodium metal batteries in carbonate electrolytes. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 115, 156-165	9.1	1
160	Rationally Designed Three-Layered TiO <sub>2</sub> @amorphous MoS <sub>2</sub> @Carbon Hierarchical Microspheres for Efficient Potassium Storage.. <i>Small</i> , <b>2022</b> , e2107819	11	3
159	Electrocatalytic oxygen reduction of COF-derived porous Fe-N <sub>x</sub> nanoclusters/carbon catalyst and application for high performance Zn-air battery. <i>Microporous and Mesoporous Materials</i> , <b>2022</b> , 330, 111609	5.3	1
158	Self-healing and ultrastable anode based on room temperature liquid metal reinforced two-dimensional siloxene for high-performance lithium-ion batteries. <i>Applied Materials Today</i> , <b>2022</b> , 26, 101300	6.6	2
157	Long-life and dendrite-free zinc metal anode enabled by a flexible, green and self-assembled zincophilic biomass engineered MXene based interface. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134277	14.7	28
156	Robust and flexible polymer/MXene-derived two dimensional TiO <sub>2</sub> hybrid gel electrolyte for dendrite-free solid-state zinc-ion batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132748	14.7	7
155	Defect-Selectivity and Order-in-Disorder Engineering in Carbon for Durable and Fast Potassium Storage (Adv. Mater. 7/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270056	24	4
154	LiF-rich and self-repairing interface induced by MgF <sub>2</sub> engineered separator enables dendrite-free lithium metal batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 442, 136243	14.7	1
153	Ultrastable and High-Rate 2D Siloxene Anode Enabled by Covalent Organic Framework Engineering for Advanced Lithium-Ion Batteries.. <i>Small Methods</i> , <b>2022</b> , e2200306	12.8	1
152	Integrating Bi@C Nanospheres in Porous Hard Carbon Frameworks for Ultrafast Sodium Storage.. <i>Advanced Materials</i> , <b>2022</b> , e2202673	24	13
151	Defect-Selectivity and "Order in Disorder" Engineering in Carbon for Durable and Fast Potassium Storage. <i>Advanced Materials</i> , <b>2021</b> , e2108621	24	18
150	Metal-organic frameworks and their derivatives in stable Zn metal anodes for aqueous Zn-ion batteries <b>2021</b> ,		1
149	Design of Robust, Lithiophilic, and Flexible Inorganic-Polymer Protective Layer by Separator Engineering Enables Dendrite-Free Lithium Metal Batteries with LiNi Mn Co O Cathode. <i>Small</i> , <b>2021</b> , 17, e2007717	11	49

148	Flexible and stable 3D lithium metal anodes based on self-standing MXene/COF frameworks for high-performance lithium-sulfur batteries. <i>Nano Research</i> , <b>2021</b> , 14, 3576-3584	10	28
147	Dealloying: An effective method for scalable fabrication of 0D, 1D, 2D, 3D materials and its application in energy storage. <i>Nano Today</i> , <b>2021</b> , 37, 101094	17.9	27
146	Bimetal CoNi Active Sites on Mesoporous Carbon Nanosheets to Kinetically Boost Lithium-Sulfur Batteries. <i>Small</i> , <b>2021</b> , 17, e2100414	11	4
145	Molten Salt Derived Graphene-Like Carbon Nanosheets Wrapped SiO <sub>x</sub> /Carbon Submicrospheres with Enhanced Lithium Storage. <i>Chinese Journal of Chemistry</i> , <b>2021</b> , 39, 1233-1239	4.9	2
144	A High-Rate and Ultrastable Aqueous Zinc-Ion Battery with a Novel MgV O <sub>2</sub> ·1.7H <sub>2</sub> O Nanobelt Cathode. <i>Small</i> , <b>2021</b> , 17, e2100318	11	19
143	Stable Aqueous Anode-Free Zinc Batteries Enabled by Interfacial Engineering. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101886	15.6	46
142	Interface engineering and heterometal doping Mo-NiS/Ni(OH) <sub>2</sub> for overall water splitting. <i>Nano Research</i> , <b>2021</b> , 14, 3466-3473	10	17
141	Boosting Selective Nitrogen Reduction via Geometric Coordination Engineering on Single-Tungsten-Atom Catalysts. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100429	24	36
140	Atomic Tungsten on Graphene with Unique Coordination Enabling Kinetically Boosted Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15563-15571	16.4	36
139	Oxygen Defects Engineering of VO <sub>2</sub> ·xH <sub>2</sub> O Nanosheets via In Situ Polypyrrole Polymerization for Efficient Aqueous Zinc Ion Storage. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103070	15.6	37
138	Atomic Tungsten on Graphene with Unique Coordination Enabling Kinetically Boosted Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 15691-15699	3.6	7
137	Advances and Perspectives of Cathode Storage Chemistry in Aqueous Zinc-Ion Batteries. <i>ACS Nano</i> , <b>2021</b> , 15, 9244-9272	16.7	58
136	Design of safe, long-cycling and high-energy lithium metal anodes in all working conditions: Progress, challenges and perspectives. <i>Energy Storage Materials</i> , <b>2021</b> , 38, 157-189	19.4	17
135	Scalable and Controllable Synthesis of Interface-Engineered Nanoporous Host for Dendrite-Free and High Rate Zinc Metal Batteries. <i>ACS Nano</i> , <b>2021</b> ,	16.7	39
134	KOH Chemical-Activated Porous Carbon Sponges for Monolithic Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 6768-6776	6.1	7
133	Electrochemical and Nanomechanical Properties of TiO <sub>2</sub> Ceramic Filler Li-Ion Composite Gel Polymer Electrolytes for Li Metal Batteries. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100669	4.6	3
132	Loading Fe <sub>3</sub> O <sub>4</sub> nanoparticles on paper-derived carbon scaffold toward advanced lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 52, 1-11	12	23
131	Recent Advances and Perspectives of Zn-Metal Free Rocking-Chair-Type Zn-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002529	21.8	52

130	Quantum-Matter Bi/TiO <sub>2</sub> Heterostructure Embedded in N-Doped Porous Carbon Nanosheets for Enhanced Sodium Storage. <i>Small Structures</i> , <b>2021</b> , 2, 2000085	8.7	40
129	N-Doped carbon coated NiCo <sub>2</sub> O <sub>4</sub> nanorods for efficient electrocatalytic oxygen evolution. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 3740-3747	6.8	3
128	Carbon coated SiO nanoparticles embedded in hierarchical porous N-doped carbon nanosheets for enhanced lithium storage. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 4282-4290	6.8	4
127	Rocking Chair Batteries: Recent Advances and Perspectives of Zn-Metal Free Rocking-Chair Type Zn-Ion Batteries (Adv. Energy Mater. 5/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170023	21.8	2
126	High-Safety and High-Voltage Lithium Metal Batteries Enabled by a Nonflammable Ether-Based Electrolyte with Phosphazene as a Cosolvent. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 10141-10148	9.5	9
125	Green and Facile Synthesis of Nanosized Polythiophene as an Organic Anode for High-Performance Potassium-Ion Battery <b>2021</b> , 159-166		
124	Rational Design of Sulfur-Doped Three-Dimensional TiCT MXene/ZnS Heterostructure as Multifunctional Protective Layer for Dendrite-Free Zinc-Ion Batteries. <i>ACS Nano</i> , <b>2021</b> , 15, 15259-15273	16.7	37
123	Covalent Organic Frameworks and Their Derivatives for Better Metal Anodes in Rechargeable Batteries. <i>ACS Nano</i> , <b>2021</b> ,	16.7	27
122	Dual-Functional MgO Nanocrystals Satisfying Both Polysulfides and Li Regulation toward Advanced Lithium-Sulfur Full Batteries. <i>Small</i> , <b>2021</b> , 17, e2103744	11	3
121	Reversible zinc-based anodes enabled by zincophilic antimony engineered MXene for stable and dendrite-free aqueous zinc batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 41, 343-353	19.4	36
120	Emerging Catalysts to Promote Kinetics of Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002893	21.8	85
119	Superior Sodium Metal Anodes Enabled by Sodiophilic Carbonized Coconut Framework with 3D Tubular Structure. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003699	21.8	25
118	Recent progress on preparation and applications of layered double hydroxides. <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	3
117	Electrochemically Activated Vanadium Oxide Cathode for Advanced Aqueous Zn-Ion Batteries.. <i>Nano Letters</i> , <b>2021</b> ,	11.5	14
116	WSe <sub>2</sub> Flakelets on N-doped Graphene for Accelerating Polysulfide Redox and Regulating Li Plating. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	9
115	Hierarchical Octahedra Constructed by Cu S/MoS <sub>2</sub> Carbon Framework with Enhanced Sodium Storage. <i>Small</i> , <b>2020</b> , 16, e2000952	11	31
114	Layer-by-Layer Stacked (NH <sub>4</sub> ) <sub>2</sub> V <sub>4</sub> O <sub>9</sub> ·0.5H <sub>2</sub> O Nanosheet Assemblies with Intercalation Pseudocapacitance for High Rate Aqueous Zinc Ion Storage. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5343-5352	6.1	15
113	Z-scheme CdS/Co <sub>9</sub> S <sub>8</sub> -RGO for photocatalytic hydrogen production. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 2692-2701	6.8	8

112	Heteroatom-doped 3D porous carbon architectures for highly stable aqueous zinc metal batteries and non-aqueous lithium metal batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125843	14.7	50
111	Boosting Zinc-Ion Storage Capability by Effectively Suppressing Vanadium Dissolution Based on Robust Layered Barium Vanadate. <i>Nano Letters</i> , <b>2020</b> , 20, 2899-2906	11.5	97
110	Boosting Na Storage Ability of Bimetallic Mo W Se with Expanded Interlayers. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 9580-9588	4.8	4
109	Bonding VSe <sub>2</sub> ultrafine nanocrystals on graphene toward advanced lithium-sulfur batteries. <i>Nano Research</i> , <b>2020</b> , 13, 2673-2682	10	33
108	Nanoporous Si@Carbon: Porosity- and Graphitization-Controlled Fabrication of Nanoporous Silicon@Carbon for Lithium Storage and Its Conjugation with MXene for Lithium-Metal Anode (Adv. Funct. Mater. 9/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070058	15.6	1
107	Hierarchical Microcables Constructed by CoP@C?Carbon Framework Intertwined with Carbon Nanotubes for Efficient Lithium Storage. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902913	21.8	64
106	Controlled synthesis of copper reinforced nanoporous silicon microsphere with boosted electrochemical performance. <i>Journal of Power Sources</i> , <b>2020</b> , 455, 227967	8.9	8
105	Porosity- and Graphitization-Controlled Fabrication of Nanoporous Silicon@Carbon for Lithium Storage and Its Conjugation with MXene for Lithium-Metal Anode. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908721	15.6	85
104	Metal-Semiconductor Phase Twinned Hierarchical MoS Nanowires with Expanded Interlayers for Sodium-Ion Batteries with Ultralong Cycle Life. <i>Small</i> , <b>2020</b> , 16, e1906607	11	46
103	Sponge Assembled by Graphene Nanocages with Double Active Sites to Accelerate Alkaline HER Kinetics. <i>Nano Letters</i> , <b>2020</b> , 20, 8375-8383	11.5	15
102	TiO <sub>2</sub> -Based Heterostructures with Different Mechanism: A General Synergistic Effect toward High-Performance Sodium Storage. <i>Small</i> , <b>2020</b> , 16, e2004054	11	15
101	Recently advances and perspectives of anode-free rechargeable batteries. <i>Nano Energy</i> , <b>2020</b> , 78, 105344	17.1	32
100	Systematic Study of Alkali Cations Intercalated Titanium Dioxide Effect on Sodium and Lithium Storage. <i>Small</i> , <b>2020</b> , 16, e2001391	11	4
99	Two-Dimensional Silicon/Carbon from Commercial Alloy and CO for Lithium Storage and Flexible TiCT MXene-Based Lithium-Metal Batteries. <i>ACS Nano</i> , <b>2020</b> ,	16.7	46
98	N-Doped graphitic ladder-structured carbon nanotubes as a superior sulfur host for lithium-sulfur batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 3969-3979	6.8	2
97	N-doped carbon nanotubes formed in a wide range of temperature and ramping rate for fast sodium storage. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 49, 136-146	12	23
96	Recent advances and perspectives of 2D silicon: Synthesis and application for energy storage and conversion. <i>Energy Storage Materials</i> , <b>2020</b> , 32, 115-150	19.4	28
95	Nanoribbon Superstructures of Graphene Nanocages for Efficient Electrocatalytic Hydrogen Evolution. <i>Nano Letters</i> , <b>2020</b> , 20, 7342-7349	11.5	9

94	Sandwich Structures Constructed by ZnSe <sub>2</sub> N-C@MoSe <sub>2</sub> Located in Graphene for Efficient Sodium Storage. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002298	21.8	35
93	Porous lithium cobalt oxide fabricated from metal-organic frameworks as a high-rate cathode for lithium-ion batteries. <i>RSC Advances</i> , <b>2020</b> , 10, 31889-31893	3.7	3
92	Micron-Sized Nanoporous Vanadium Pentoxide Arrays for High-Performance Gel Zinc-Ion Batteries and Potassium Batteries. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 4054-4064	9.6	62
91	NiP nanoparticles bound on graphene sheets for advanced lithium-sulfur batteries. <i>Nanoscale</i> , <b>2020</b> , 12, 10760-10770	7.7	23
90	Green and tunable fabrication of graphene-like N-doped carbon on a 3D metal substrate as a binder-free anode for high-performance potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21966-21975	13	34
89	Flexible and Free-Standing TiCT MXene@Zn Paper for Dendrite-Free Aqueous Zinc Metal Batteries and Nonaqueous Lithium Metal Batteries. <i>ACS Nano</i> , <b>2019</b> , 13, 11676-11685	16.7	213
88	Insight into different-microstructured ZnO/graphene-functionalized separators affecting the performance of lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4009-4018	13	35
87	P-doped BN nanosheets decorated graphene as the functional interlayer for LIB batteries. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 39, 54-60	12	51
86	Nonflammable Fluorinated Carbonate Electrolyte with High Salt-to-Solvent Ratios Enables Stable Silicon-Based Anode for Next-Generation Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 23229-23235	9.5	36
85	A general method for constructing robust, flexible and freestanding MXene@metal anodes for high-performance potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9716-9725	13	110
84	Nanostructures inducing distinctive photocatalytic and photoelectrochemical performance via the introduction of rGO into CdZnS. <i>Nanoscale</i> , <b>2019</b> , 11, 5571-5579	7.7	9
83	Strongly Coupled W <sub>2</sub> C Atomic Nanoclusters on N/P-Codoped Graphene for Kinetically Enhanced Sulfur Host. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1802088	4.6	24
82	Unusual formation of NiCoO@MnO/nickel foam/MnO sandwich as advanced electrodes for hybrid supercapacitors. <i>Dalton Transactions</i> , <b>2019</b> , 48, 7403-7412	4.3	17
81	New Insights into the Electrochemistry Superiority of Liquid Na-K Alloy in Metal Batteries. <i>Small</i> , <b>2019</b> , 15, e1804916	11	20
80	Sulfiphilic Few-Layered MoSe <sub>2</sub> Nanoflakes Decorated rGO as a Highly Efficient Sulfur Host for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901896	21.8	84
79	Layered (NH <sub>4</sub> ) <sub>2</sub> V <sub>6</sub> O <sub>16</sub> ·1.5H <sub>2</sub> O nanobelts as a high-performance cathode for aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19130-19139	13	72
78	Scalable and Physical Synthesis of 2D Silicon from Bulk Layered Alloy for Lithium-Ion Batteries and Lithium Metal Batteries. <i>ACS Nano</i> , <b>2019</b> , 13, 13690-13701	16.7	88
77	One-Step Construction of MoS <sub>2</sub> /N-Doped Carbon Flower-like Hierarchical Microspheres with Enhanced Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44342-44351	9.5	18



76	Boosting the potassium-ion storage performance of a carbon anode by chemically regulating oxygen-containing species. <i>Chemical Communications</i> , <b>2019</b> , 55, 14147-14150	5.8	19
75	Enhancing kinetics of Li-S batteries by graphene-like N,S-codoped biochar fabricated in NaCl non-aqueous ionic liquid. <i>Science China Materials</i> , <b>2019</b> , 62, 455-464	7.1	21
74	One-Step In Situ Formation of N-doped Carbon Nanosheet 3D Porous Networks/TiO <sub>2</sub> Hybrids with Ultrafast Sodium Storage. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803070	21.8	40
73	Green, Scalable, and Controllable Fabrication of Nanoporous Silicon from Commercial Alloy Precursors for High-Energy Lithium-Ion Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 4993-5002	16.7	193
72	An innovative Au-CdS/ZnS-RGO architecture for efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2895-2899	13	25
71	Unusual Formation of CoO@C Dandelions Derived from 2D Kagome MOFs for Efficient Lithium Storage. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703242	21.8	103
70	Commercial expanded graphite as a low-cost, long-cycling life anode for potassium-ion batteries with conventional carbonate electrolyte. <i>Journal of Power Sources</i> , <b>2018</b> , 378, 66-72	8.9	208
69	Embedding MnO@Mn <sub>2</sub> O <sub>3</sub> Nanoparticles in an N-Doped-Carbon Framework Derived from Mn-Organic Clusters for Efficient Lithium Storage. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704244	24	280
68	Hierarchical Porous Nanosheets Constructed by Graphene-Coated, Interconnected TiO <sub>2</sub> Nanoparticles for Ultrafast Sodium Storage. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705788	24	191
67	SulfurHydrazine hydrate-based chemical synthesis of sulfur@graphene composite for lithium-sulfur batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 785-792	6.8	11
66	Vacuum distillation derived 3D porous current collector for stable lithium-metal batteries. <i>Nano Energy</i> , <b>2018</b> , 47, 503-511	17.1	165
65	Heteroatom dopings and hierarchical pores of graphene for synergistic improvement of lithium-sulfur battery performance. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1053-1061	6.8	17
64	Systematic Study of Effect on Enhancing Specific Capacity and Electrochemical Behaviors of Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701330	21.8	123
63	Facile synthesis of N,O-codoped hard carbon on the kilogram scale for fast capacitive sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16465-16474	13	39
62	Nitrogen/oxygen co-doped monolithic carbon electrodes derived from melamine foam for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17730-17739	13	121
61	Green and facile synthesis of nanosized polythiophene as an organic anode for high-performance potassium-ion battery. <i>Functional Materials Letters</i> , <b>2018</b> , 11, 1840003	1.2	14
60	One-Step Construction of N,P-Codoped Porous Carbon Sheets/CoP Hybrids with Enhanced Lithium and Potassium Storage. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802310	24	278
59	Systematic Exploration of the Role of a Modified Layer on the Separator in the Electrochemistry of Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30306-30313	9.5	16

58	Nitrogen-Doped Graphene-Supported Mixed Transition-Metal Oxide Porous Particles to Confine Polysulfides for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800595	21.8	105
57	Enhanced Capacity and Rate Capability of Nitrogen/Oxygen Dual-Doped Hard Carbon in Capacitive Potassium-Ion Storage. <i>Advanced Materials</i> , <b>2018</b> , 30, 1700104	24	499
56	Micron-Sized Nanoporous Antimony with Tunable Porosity for High-Performance Potassium-Ion Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 12932-12940	16.7	167
55	High-Surface-Area Nitrogen/Phosphorus Dual-Doped Hierarchical Porous Carbon Derived from Biochar for Sulfur Holder. <i>ChemistrySelect</i> , <b>2018</b> , 3, 10175-10181	1.8	9
54	Hydrothermal Synthesis of ZnWO <sub>4</sub> Hierarchical Hexangular Microstars for Enhanced Lithium-Storage Properties. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 734-740	2.3	17
53	General Strategy for Integrated SnO/Metal Oxides as Biactive Lithium-Ion Battery Anodes with Ultralong Cycling Life. <i>ACS Omega</i> , <b>2017</b> , 2, 6415-6423	3.9	2
52	One-Pot Synthesis of Size-Controllable Core-Shell CdS and Derived CdS@Zn Cd S Structures for Photocatalytic Hydrogen Production. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16653-16659	4.8	27
51	Rationally Incorporated MoS/SnS Nanoparticles on Graphene Sheets for Lithium-Ion and Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27697-27706	9.5	106
50	A titanium-based metal-organic framework as an ultralong cycle-life anode for PIBs. <i>Chemical Communications</i> , <b>2017</b> , 53, 8360-8363	5.8	77
49	MOF-derived bi-metal embedded N-doped carbon polyhedral nanocages with enhanced lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 266-274	13	276
48	Sole Chemical Confinement of Polysulfides on Nonporous Nitrogen/Oxygen Dual-Doped Carbon at the Kilogram Scale for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604265	15.6	157
47	Formation of C@Fe <sub>3</sub> O <sub>4</sub> @C Hollow Sandwiched Structures with Enhanced Lithium-Storage Properties. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 3722-3727	2.3	11
46	MnO <sub>2</sub> nanotubes with a water soluble binder as high performance sodium storage materials. <i>RSC Advances</i> , <b>2016</b> , 6, 103579-103584	3.7	16
45	Ultrasmall SnS <sub>2</sub> nanoparticles anchored on well-distributed nitrogen-doped graphene sheets for Li-ion and Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10719-10726	13	144
44	Facile hydrothermal growth of VO <sub>2</sub> nanowire, nanorod and nanosheet arrays as binder free cathode materials for sodium batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 14314-14320	3.7	12
43	Enhancing the cycling stability of Na-ion batteries by bonding SnS <sub>2</sub> ultrafine nanocrystals on amino-functionalized graphene hybrid nanosheets. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1430-1438	35.4	277
42	A novel bifunctional additive for 5 V-class, high-voltage lithium ion batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 7224-7228	16	
41	A General Synthetic Approach for Integrated Nanocatalysts of [email protected]. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 326-336	9.6	55



40	Designed Formation of MnO <sub>2</sub> @NiO/NiMoO <sub>4</sub> Nanowires@Nanosheets Hierarchical Structures with Enhanced Pseudocapacitive Properties. <i>ChemElectroChem</i> , <b>2016</b> , 3, 1347-1353	4.3	24
39	A novel Lithium/Sodium hybrid aqueous electrolyte for hybrid supercapacitors based on LiFePO <sub>4</sub> and activated carbon. <i>Functional Materials Letters</i> , <b>2016</b> , 09, 1642008	1.2	13
38	Enhancing the safety and electrochemical performance of ether based lithium sulfur batteries by introducing an efficient flame retarding additive. <i>RSC Advances</i> , <b>2016</b> , 6, 53560-53565	3.7	17
37	Hierarchical Carbon Nanotubes with a Thick Microporous Wall and Inner Channel as Efficient Scaffolds for Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1571-1579	15.6	162
36	Metal-organic framework-derived graphene@nitrogen doped carbon@ultrafine TiO <sub>2</sub> nanocomposites as high rate and long-life anodes for sodium ion batteries. <i>Chemical Communications</i> , <b>2016</b> , 52, 12810-12812	5.8	42
35	Metal-organic framework derived CuO hollow spheres as high performance anodes for sodium ion battery. <i>Materials Technology</i> , <b>2016</b> , 31, 497-500	2.1	13
34	General formation of Mn-based transition metal oxide twin-microspheres with enhanced lithium storage properties. <i>RSC Advances</i> , <b>2015</b> , 5, 26863-26871	3.7	16
33	Large-scale synthesis of Co <sub>2</sub> V <sub>2</sub> O <sub>7</sub> hexagonal microplatelets under ambient conditions for highly reversible lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16728-16736	13	96
32	Nonflammable electrolyte for safer non-aqueous sodium batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14539-14544	13	45
31	Enhancing the electrode performance of Co <sub>3</sub> O <sub>4</sub> through Co <sub>3</sub> O <sub>4</sub> @a-TiO <sub>2</sub> core-shell microcubes with controllable pore size. <i>RSC Advances</i> , <b>2015</b> , 5, 40899-40906	3.7	7
30	Chemical dealloying synthesis of porous silicon anchored by in situ generated graphene sheets as anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 287, 177-183	8.9	88
29	Mesoporous quasi-single-crystalline NiCo <sub>2</sub> O <sub>4</sub> superlattice nanoribbons with optimizable lithium storage properties. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10336-10344	13	70
28	ZnO/CoO and ZnCo <sub>2</sub> O <sub>4</sub> Hierarchical Bipyramid Nanoframes: Morphology Control, Formation Mechanism, and Their Lithium Storage Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 22848-22857	8.5	49
27	Hydrothermal Synthesis of Unique Hollow Hexagonal Prismatic Pencils of Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> ·n H <sub>2</sub> O: A New Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 10937-10941	3.6	9
26	Hydrothermal Synthesis of Unique Hollow Hexagonal Prismatic Pencils of Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> ·n H <sub>2</sub> O: A New Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 10787-10791	16.4	104
25	Selenium in nitrogen-doped microporous carbon spheres for high-performance lithium-selenium batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4539-4546	13	78
24	Biphenyl as overcharge protection additive for nonaqueous sodium batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 96649-96652	3.7	11
23	Unusual Formation of ZnCo <sub>2</sub> O <sub>4</sub> 3D Hierarchical Twin Microspheres as a High-Rate and Ultralong-Life Lithium-Ion Battery Anode Material. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3012-3020	15.6	330

22	Hollow MnCo <sub>2</sub> O <sub>4</sub> submicrospheres with multilevel interiors: from mesoporous spheres to yolk-in-double-shell structures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 24-30	9.5	175
21	3D Co <sub>3</sub> O <sub>4</sub> and CoO@C wall arrays: morphology control, formation mechanism, and lithium-storage properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11597	13	76
20	Anodes: Unusual Formation of ZnCo <sub>2</sub> O <sub>4</sub> 3D Hierarchical Twin Microspheres as a High-Rate and Ultralong-Life Lithium-Ion Battery Anode Material (Adv. Funct. Mater. 20/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3011-3011	15.6	2
19	Formation of quasi-mesocrystal ZnMn <sub>2</sub> O <sub>4</sub> twin microspheres via an oriented attachment for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14236-14244	13	82
18	Polymer-assisted synthesis of a 3D hierarchical porous network-like spinel NiCo <sub>2</sub> O <sub>4</sub> framework towards high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11145	13	140
17	Facile synthesis of mesoporous Mn <sub>3</sub> O <sub>4</sub> nanotubes and their excellent performance for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 10985	13	108
16	Simple synthesis of yolk-shelled ZnCo <sub>2</sub> O <sub>4</sub> microspheres towards enhancing the electrochemical performance of lithium-ion batteries in conjunction with a sodium carboxymethyl cellulose binder. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 15292	13	138
15	Ag nanoprisms with Ag <sub>2</sub> S attachment. <i>Scientific Reports</i> , <b>2013</b> , 3, 2177	4.9	52
14	Serial ionic exchange for the synthesis of multishelled copper sulfide hollow spheres. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 949-52	16.4	158
13	Spinel Mn <sub>1.5</sub> Co <sub>1.5</sub> O <sub>4</sub> core-shell microspheres as Li-ion battery anode materials with a long cycle life and high capacity. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23254		129
12	Mesoporous Co <sub>3</sub> O <sub>4</sub> and CoO@C Topotactically Transformed from Chrysanthemum-like Co(CO <sub>3</sub> ) <sub>0.5</sub> (OH) <sub>0.11</sub> H <sub>2</sub> O and Their Lithium-Storage Properties. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 861-871	15.6	506
11	Mesoporous NiO ultrathin nanowire networks topotactically transformed from Ni(OH) <sub>2</sub> hierarchical microspheres and their superior electrochemical capacitance properties and excellent capability for water treatment. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14276		124
10	Adsorption Isotherms and Isosteric Enthalpy of Adsorption for Assorted Refrigerants on Activated Carbons. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 2766-2773	2.8	29
9	TiO <sub>2</sub> thin films prepared via adsorptive self-assembly for self-cleaning applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 1093-102	9.5	82
8	Flexible Hybrid Paper Made of Monolayer Co <sub>3</sub> O <sub>4</sub> Microsphere Arrays on rGO/CNTs and Their Application in Electrochemical Capacitors. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2560-2566	15.6	336
7	Serial Ionic Exchange for the Synthesis of Multishelled Copper Sulfide Hollow Spheres. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 973-976	3.6	27
6	Dual-Functional NbN Ultrafine Nanocrystals Enabling Kinetically Boosted Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 11586	15.6	6
5	Zero-Strain Structure for Efficient Potassium Storage Nitrogen-Enriched Carbon Dual-Confinement CoP Composite. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 103341	21.8	5

4	A channel-confined strategy for synthesizing CoN-CoO <sub>x</sub> /C as efficient oxygen reduction electrocatalyst for advanced zinc-air batteries. <i>Nano Research</i> ,1	10	6
3	Immobilizing VN ultrafine nanocrystals on N-doped carbon nanosheets enable multiple effects for high-rate lithium-sulfur batteries. <i>Nano Research</i> ,1	10	6
2	Recent progress, mechanisms, and perspectives for crystal and interface chemistry applying to the Zn metal anodes in aqueous zinc-ion batteries. <i>SusMat</i> ,		5
1	Synthesis of carbon nanotubes-supported porous silicon microparticles in low-temperature molten salt for high-performance Li-ion battery anodes. <i>Nano Research</i> ,1	10	2