

Yong-Yao Xia

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259
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137
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276
ext. papers

24,735
ext. citations

12.4
avg, IF

7.53
L-index

#	Paper	IF	Citations
259	Electrochemical capacitors: mechanism, materials, systems, characterization and applications. <i>Chemical Society Reviews</i> , 2016 , 45, 5925-5950	58.5	2202
258	A Controllable Synthesis of Rich Nitrogen-Doped Ordered Mesoporous Carbon for CO ₂ Capture and Supercapacitors. <i>Advanced Functional Materials</i> , 2013 , 23, 2322-2328	15.6	783
257	Ti-based compounds as anode materials for Li-ion batteries. <i>Energy and Environmental Science</i> , 2012 , 5, 6652	35.4	691
256	Raising the cycling stability of aqueous lithium-ion batteries by eliminating oxygen in the electrolyte. <i>Nature Chemistry</i> , 2010 , 2, 760-5	17.6	679
255	Polyaniline-intercalated manganese dioxide nanolayers as a high-performance cathode material for an aqueous zinc-ion battery. <i>Nature Communications</i> , 2018 , 9, 2906	17.4	618
254	Recent Progress in Aqueous Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 830-840	21.8	390
253	A Metal-Organic Framework Host for Highly Reversible Dendrite-free Zinc Metal Anodes. <i>Joule</i> , 2019 , 3, 1289-1300	27.8	351
252	Carbon-coated nano-sized Li ₄ Ti ₅ O ₁₂ nanoporous micro-sphere as anode material for high-rate lithium-ion batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 4016	35.4	342
251	A Self-Template Strategy for the Synthesis of Mesoporous Carbon Nanofibers as Advanced Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , 2011 , 1, 382-386	21.8	327
250	Controllable Synthesis of Mesoporous Peapod-like Co ₃ O ₄ @Carbon Nanotube Arrays for High-Performance Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7060-4	16.4	318
249	Sol-gel design strategy for ultradispersed TiO ₂ nanoparticles on graphene for high-performance lithium ion batteries. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18300-3	16.4	313
248	A comprehensive study on KOH activation of ordered mesoporous carbons and their supercapacitor application. <i>Journal of Materials Chemistry</i> , 2012 , 22, 93-99		299
247	Flexible and Wire-Shaped Micro-Supercapacitor Based on Ni(OH) ₂ -Nanowire and Ordered Mesoporous Carbon Electrodes. <i>Advanced Functional Materials</i> , 2014 , 24, 3405-3412	15.6	277
246	Ordered hierarchical mesoporous/macroporous carbon: a high-performance catalyst for rechargeable Li-O(2) batteries. <i>Advanced Materials</i> , 2013 , 25, 5668-72	24	270
245	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11737-11741	16.4	261
244	Recent Progress of Rechargeable Batteries Using Mild Aqueous Electrolytes. <i>Small Methods</i> , 2019 , 3, 1800272	12.8	259
243	Highly ordered mesoporous carbon nanofiber arrays from a crab shell biological template and its application in supercapacitors and fuel cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4223		250

242	Facile synthesis of hierarchically porous Li ₄ Ti ₅ O ₁₂ microspheres for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6998		249
241	General strategy to synthesize uniform mesoporous TiO ₂ /graphene/mesoporous TiO ₂ sandwich-like nanosheets for highly reversible lithium storage. <i>Nano Letters</i> , 2015 , 15, 2186-93	11.5	248
240	Environmentally-friendly aqueous Li (or Na)-ion battery with fast electrode kinetics and super-long life. <i>Science Advances</i> , 2016 , 2, e1501038	14.3	245
239	Highly Reversible Zn Anode Enabled by Controllable Formation of Nucleation Sites for Zn-Based Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1908528	15.6	239
238	General synthesis of carbon-coated nanostructure Li ₄ Ti ₅ O ₁₂ as a high rate electrode material for Li-ion intercalation. <i>Journal of Materials Chemistry</i> , 2010 , 20, 595-602		239
237	Separating hydrogen and oxygen evolution in alkaline water electrolysis using nickel hydroxide. <i>Nature Communications</i> , 2016 , 7, 11741	17.4	232
236	Ordered Hierarchical Mesoporous/Microporous Carbon Derived from Mesoporous Titanium-Carbide/Carbon Composites and its Electrochemical Performance in Supercapacitor. <i>Advanced Energy Materials</i> , 2011 , 1, 1101-1108	21.8	232
235	Challenges, mitigation strategies and perspectives in development of zinc-electrode materials and fabrication for rechargeable zinc-air batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 3075-3095	35.4	212
234	Layered H ₂ Ti ₆ O ₁₃ -Nanowires: A New Promising Pseudocapacitive Material in Non-Aqueous Electrolyte. <i>Advanced Functional Materials</i> , 2012 , 22, 5185-5193	15.6	201
233	A high performance lithium-ion sulfur battery based on a Li ₂ S cathode using a dual-phase electrolyte. <i>Energy and Environmental Science</i> , 2015 , 8, 1551-1558	35.4	197
232	Suppressing the Phase Transition of the Layered Ni-Rich Oxide Cathode during High-Voltage Cycling by Introducing Low-Content Li ₂ MnO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1297-308	9.5	194
231	Synergetic Protective Effect of the Ultralight MWCNTs/NCQDs Modified Separator for Highly Stable Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702288	21.8	191
230	Progress in Aqueous Rechargeable Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703008	21.8	188
229	Preparation of three-dimensional ordered mesoporous carbon sphere arrays by a two-step templating route and their application for supercapacitors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3661		186
228	Organic Batteries Operated at 0°C. <i>Joule</i> , 2018 , 2, 902-913	27.8	172
227	Uniform Ordered Two-Dimensional Mesoporous TiO Nanosheets from Hydrothermal-Induced Solvent-Confined Monomicelle Assembly. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4135-4143	16.4	170
226	To mitigate self-discharge of lithium-sulfur batteries by optimizing ionic liquid electrolytes. <i>Energy and Environmental Science</i> , 2016 , 9, 224-231	35.4	159
225	Tuning P2-Structured Cathode Material by Na-Site Mg Substitution for Na-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019 , 141, 840-848	16.4	147

224	Hybrid Aqueous Energy Storage Cells Using Activated Carbon and Lithium-Ion Intercalated Compounds: II. Comparison of , , and Positive Electrodes. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1425	3.9	144
223	Recent Advances in Polymer Electrolytes for Zinc Ion Batteries: Mechanisms, Properties, and Perspectives. <i>Advanced Energy Materials</i> , 2020 , 10, 1903977	21.8	144
222	Graphene-Supported Nitrogen and Boron Rich Carbon Layer for Improved Performance of Lithium-Sulfur Batteries Due to Enhanced Chemisorption of Lithium Polysulfides. <i>Advanced Energy Materials</i> , 2016 , 6, 1501733	21.8	140
221	Pseudocapacitive materials for electrochemical capacitors: from rational synthesis to capacitance optimization. <i>National Science Review</i> , 2017 , 4, 71-90	10.8	138
220	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. <i>Chem</i> , 2017 , 3, 348-362	16.2	135
219	In situ encapsulation of core-shell-structured Co@Co ₃ O ₄ into nitrogen-doped carbon polyhedra as a bifunctional catalyst for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1443-1453	12.3	129
218	Flexible Aqueous Lithium-Ion Battery with High Safety and Large Volumetric Energy Density. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7474-7	16.4	122
217	Improving the electrochemical performance of layered lithium-rich transition-metal oxides by controlling the structural defects. <i>Energy and Environmental Science</i> , 2014 , 7, 705-714	35.4	118
216	A nitrogen-doped ordered mesoporous carbon nanofiber array for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8488	13	116
215	A PEO-based gel polymer electrolyte for lithium ion batteries. <i>RSC Advances</i> , 2017 , 7, 23494-23501	3.7	115
214	A Rechargeable Li-CO Battery with a Gel Polymer Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9126-9130	16.4	115
213	The effect of oxygen pressures on the electrochemical profile of lithium/oxygen battery. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 109-114	2.6	111
212	LiMn ₂ O ₄ Nanorods, Nanothorn Microspheres, and Hollow Nanospheres as Enhanced Cathode Materials of Lithium Ion Battery. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12051-12057	3.8	111
211	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. <i>Angewandte Chemie</i> , 2018 , 130, 11911-11915	3.6	106
210	General synthesis of xLi ₂ MnO ₃ [(1-x)LiMn _{1/3} Ni _{1/3} Co _{1/3} O ₂] nanomaterials by a molten-salt method: towards a high capacity and high power cathode for rechargeable lithium batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 25380		106
209	Double-Nanocarbon Synergistically Modified Na ₃ V ₂ (PO ₄) ₃ : An Advanced Cathode for High-Rate and Long-Life Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15341-51	9.5	102
208	A Long-Life Lithium-Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7505-7509	16.4	100
207	SnSb@carbon nanocable anchored on graphene sheets for sodium ion batteries. <i>Nano Research</i> , 2014 , 7, 1466-1476	10	98

206	High-Energy Rechargeable Metallic Lithium Battery at -70 °C Enabled by a Cosolvent Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5623-5627	16.4	97
205	All-Organic Rechargeable Battery with Reversibility Supported by "Water-in-Salt" Electrolyte. <i>Chemistry - A European Journal</i> , 2017 , 23, 2560-2565	4.8	95
204	Bending-Tolerant Anodes for Lithium-Metal Batteries. <i>Advanced Materials</i> , 2018 , 30, 1703891	24	95
203	Leaf-Like Graphene-Oxide-Wrapped Sulfur for High-Performance Lithium-Sulfur Battery. <i>Advanced Science</i> , 2015 , 2, 1500071	13.6	93
202	ZnO@silica core-shell nanoparticles with remarkable luminescence and stability in cell imaging. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13159		82
201	Polyimide as anode electrode material for rechargeable sodium batteries. <i>RSC Advances</i> , 2014 , 4, 25369-25373	3.7	81
200	Ordered mesoporous graphitized pyrolytic carbon materials: synthesis, graphitization, and electrochemical properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8835		80
199	Carbon quantum dots anchoring MnO ₂ /graphene aerogel exhibits excellent performance as electrode materials for supercapacitor. <i>Journal of Power Sources</i> , 2018 , 398, 167-174	8.9	79
198	Flake Cu-Sn Alloys as Negative Electrode Materials for Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A471	3.9	79
197	Enhancement on the Cycling Stability of the Layered Ni-Rich Oxide Cathode by In-Situ Fabricating Nano-Thickness Cation-Mixing Layers. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2665-A2672	3.9	77
196	Overall structural modification of a layered Ni-rich cathode for enhanced cycling stability and rate capability at high voltage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6080-6089	13	76
195	LiMn ₂ O ₄ hollow nanosphere electrode material with excellent cycling reversibility and rate capability. <i>Electrochemistry Communications</i> , 2007 , 9, 1404-1409	5.1	75
194	Li ₂ TiSiO ₅ : a low potential and large capacity Ti-based anode material for Li-ion batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 1456-1464	35.4	73
193	Binary Li ₄ Ti ₅ O ₁₂ -Li ₂ Ti ₃ O ₇ Nanocomposite as an Anode Material for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 640-647	15.6	71
192	Anchoring an Artificial Solid-Electrolyte Interphase Layer on a 3D Current Collector for High-Performance Lithium Anodes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2093-2097	16.4	69
191	Scalable production of high-performing woven lithium-ion fibre batteries. <i>Nature</i> , 2021 , 597, 57-63	50.4	69
190	Efficient Oxygen Electrocatalyst for Zn-Air Batteries: Carbon Dots and CoS Nanoparticles in a N,S-Codoped Carbon Matrix. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14085-14094	9.5	66
189	In Situ Growth of NiFe Alloy Nanoparticles Embedded into N-Doped Bamboo-like Carbon Nanotubes as a Bifunctional Electrocatalyst for Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26178-26187	9.5	66

- 188 Bio-Inspired Stable Lithium-Metal Anodes by Co-depositing Lithium with a 2D Vermiculite Shuttle. *Angewandte Chemie - International Edition*, **2019**, 58, 6200-6206 16.4 65
- 187 A lithium air battery with a lithiated Al-carbon anode. *Chemical Communications*, **2015**, 51, 676-8 5.8 65
- 186 An organic/inorganic electrode-based hydronium-ion battery. *Nature Communications*, **2020**, 11, 959 17.4 65
- 185 The development in aqueous lithium-ion batteries. *Journal of Energy Chemistry*, **2018**, 27, 1521-1535 12 65
- 184 Multiwall carbon nanotube@mesoporous carbon with core-shell configuration: a well-designed composite-structure toward electrochemical capacitor application. *Journal of Materials Chemistry*, **2011**, 21, 13025 65
- 183 Improving the Cycling Performance of the Layered Ni-Rich Oxide Cathode by Introducing Low-Content Li₂MnO₃. *Electrochimica Acta*, **2016**, 189, 101-110 6.7 63
- 182 Graphite Intercalation Compounds (GICs): A New Type of Promising Anode Material for Lithium-Ion Batteries. *Advanced Energy Materials*, **2014**, 4, 1300600 21.8 63
- 181 Water-stable blue-emitting ZnO@polymer core-shell microspheres. *Journal of Materials Chemistry*, **2007**, 17, 2490-2496 62
- 180 Carbon Quantum Dot-Induced MnO Nanowire Formation and Construction of a Binder-Free Flexible Membrane with Excellent Superhydrophilicity and Enhanced Supercapacitor Performance. *ACS Applied Materials & Interfaces*, **2017**, 9, 40394-40403 9.5 61
- 179 Graphene/silk fibroin based carbon nanocomposites for high performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 773-781 13 61
- 178 Organic Cathode Materials for Rechargeable Zinc Batteries: Mechanisms, Challenges, and Perspectives. *ChemSusChem*, **2020**, 13, 2160-2185 8.3 59
- 177 Ordered hierarchical mesoporous/microporous carbon with optimized pore structure for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 1192-1200 13 58
- 176 A direct borohydride fuel cell using MnO₂-catalyzed cathode and hydrogen storage alloy anode. *Electrochemistry Communications*, **2006**, 8, 1775-1778 5.1 57
- 175 High-voltage aqueous battery approaching 3 V using an acidic-alkaline double electrolyte. *Chemical Communications*, **2013**, 49, 2204-6 5.8 56
- 174 First-Principles Study of H⁺ Intercalation in Layer-Structured LiCoO₂. *Journal of Physical Chemistry C*, **2011**, 115, 12672-12676 3.8 56
- 173 Ultra-long Na₂Ti₃O₇ nanowires@carbon cloth as a binder-free flexible electrode with a large capacity and long lifetime for sodium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 17111-17120 12 56
- 172 A hybrid nonaqueous electrochemical supercapacitor using nano-sized iron oxyhydroxide and activated carbon. *Journal of Solid State Electrochemistry*, **2006**, 10, 405-410 2.6 53
- 171 Building an Interfacial Framework: Li/Garnet Interface Stabilization through a Cu₆Sn₅ Layer. *ACS Energy Letters*, **2019**, 4, 1725-1731 20.1 52

170	Ruthenium oxide coated ordered mesoporous carbon nanofiber arrays: a highly bifunctional oxygen electrocatalyst for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6282-6289	13	52
169	Monoclinic Phase Na ₃ Fe ₂ (PO ₄) ₃ : Synthesis, Structure, and Electrochemical Performance as Cathode Material in Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1306-1314	8.3	51
168	Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20796-20803	9.5	51
167	Stable polymer electrolytes based on polyether-grafted ZnO nanoparticles for all-solid-state lithium batteries. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1345		51
166	A Simple Prelithiation Strategy To Build a High-Rate and Long-Life Lithium-Ion Battery with Improved Low-Temperature Performance. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16606-16610	16.4	50
165	Sandwich, Vertical-Channeled Thick Electrodes with High Rate and Cycle Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1809196	15.6	49
164	Symmetric Sodium-Ion Capacitor Based on NaMnO Nanorods for Low-Cost and High-Performance Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11689-11698	9.5	49
163	A versatile single-ion electrolyte with a Grotthuss-like Li conduction mechanism for dendrite-free Li metal batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2741-2750	35.4	49
162	Enabling Mg metal anodes rechargeable in conventional electrolytes by fast ionic transport interphase. <i>National Science Review</i> , 2020 , 7, 333-341	10.8	49
161	A flexible symmetric sodium full cell constructed using the bipolar material Na ₃ V ₂ (PO ₄) ₃ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8440-8450	13	48
160	Low-Temperature Charge/Discharge of Rechargeable Battery Realized by Intercalation Pseudocapacitive Behavior. <i>Advanced Science</i> , 2020 , 7, 2000196	13.6	45
159	Ultrasmall TiO-Coated Reduced Graphene Oxide Composite as a High-Rate and Long-Cycle-Life Anode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14818-14826	9.5	45
158	Decoupling Hydrogen and Oxygen Production in Acidic Water Electrolysis Using a Polytriphenylamine-Based Battery Electrode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2904-2908	16.4	45
157	Ordered mesoporous/microporous carbon sphere arrays derived from chlorination of mesoporous TiC/C composite and their application for supercapacitors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1937-1943		44
156	Photoluminescent ZnO nanoparticles synthesized at the interface between air and triethylene glycol. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3178		44
155	Core-shell carbon-coated Cu ₆ Sn ₅ prepared by in situ polymerization as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7202		44
154	A Long-Life Lithium-Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. <i>Angewandte Chemie</i> , 2017 , 129, 7613-7617	3.6	42
153	A flexible polymer-based Li-air battery using a reduced graphene oxide/Li composite anode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6022-6032	13	42

152	A clean and membrane-free chlor-alkali process with decoupled Cl and H/NaOH production. <i>Nature Communications</i> , 2018 , 9, 438	17.4	42
151	Low-cost and high-performance of a vertically grown 3D NiFe layered double hydroxide/graphene aerogel supercapacitor electrode material. <i>RSC Advances</i> , 2016 , 6, 107278-107285	3.7	42
150	In situ structural evolution of the multi-site alloy electrocatalyst to manipulate the intermediate for enhanced water oxidation reaction. <i>Energy and Environmental Science</i> , 2020 , 13, 2200-2208	35.4	41
149	Zn ₄ Sb ₃ Nanotubes as Lithium Ion Battery Anodes with High Capacity and Cycling Stability. <i>Advanced Energy Materials</i> , 2013 , 3, 286-289	21.8	41
148	TiPO and Expanded Graphite Nanocomposite as Anode Material for Aqueous Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8075-8082	9.5	39
147	Carbon-coated Li ₄ Ti ₅ O ₁₂ nanoparticles with high electrochemical performance as anode material in sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10902-10908	13	39
146	Cycling Stability of Spinel LiMn ₂ O ₄ with Different Particle Sizes in Aqueous Electrolyte. <i>Electrochimica Acta</i> , 2015 , 173, 178-183	6.7	39
145	Whole-Voltage-Range Oxygen Redox in P2-Layered Cathode Materials for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2008194	24	39
144	Toward high energy-density and long cycling-lifespan lithium ion capacitors: a 3D carbon modified low-potential Li ₂ TiSiO ₅ anode coupled with a lignin-derived activated carbon cathode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8234-8244	13	38
143	High-Energy Rechargeable Metallic Lithium Battery at 70 °C Enabled by a Cosolvent Electrolyte. <i>Angewandte Chemie</i> , 2019 , 131, 5679-5683	3.6	38
142	High areal loading and long-life cycle stability of lithium-sulfur batteries achieved by a dual-function ZnS-modified separator. <i>Chemical Engineering Journal</i> , 2020 , 390, 124653	14.7	38
141	Improved electrochemical reversibility of Zn plating/stripping: a promising approach to suppress water-induced issues through the formation of H-bonding. <i>Materials Today Energy</i> , 2020 , 18, 100563	7	37
140	Creating an Air-Stable Sulfur-Doped Black Phosphorus-TiO ₂ Composite as High-Performance Anode Material for Sodium-Ion Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1900535	15.6	36
139	Stabilizing Solid Electrolyte Interphases on Both Anode and Cathode for High Areal Capacity, High-Voltage Lithium Metal Batteries with High Li Utilization and Lean Electrolyte. <i>Advanced Functional Materials</i> , 2020 , 30, 2002824	15.6	36
138	TiO ₂ (B) nanofiber bundles as a high performance anode for a Li-ion battery. <i>RSC Advances</i> , 2013 , 3, 33523.7	3.7	36
137	All-solid-state secondary lithium battery using solid polymer electrolyte and anthraquinone cathode. <i>Solid State Ionics</i> , 2017 , 300, 114-119	3.3	35
136	Rose-like vanadium disulfide coated by hydrophilic hydroxyvanadium oxide with improved electrochemical performance as cathode material for aqueous zinc-ion batteries. <i>Journal of Power Sources</i> , 2019 , 437, 226917	8.9	35
135	Sandwich-like Cr ₂ O ₃ /graphite intercalation composites as high-stability anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1703-1708	13	35

134	Nickel and cobalt Co-substituted spinel ZnMn ₂ O ₄ @N-rGO for increased capacity and stability as a cathode material for rechargeable aqueous zinc-ion battery. <i>Electrochimica Acta</i> , 2020 , 331, 135296	6.7	35
133	High Capacity and Cycle-Stable Hard Carbon Anode for Nonflammable Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38141-38150	9.5	35
132	Aqueous Lithium-Ion Batteries Using Polyimide-Activated Carbon Composites Anode and Spinel LiMn ₂ O ₄ Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1503-1508	8.3	34
131	In-situ growth of vertically aligned MoS ₂ nanowalls on reduced graphene oxide enables a large capacity and highly stable anode for sodium ion storage. <i>Journal of Power Sources</i> , 2020 , 445, 227271	8.9	34
130	Electrochemical Profile of LiTi ₂ (PO ₄) ₃ and NaTi ₂ (PO ₄) ₃ in Lithium, Sodium or Mixed Ion Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A904-A910	3.9	33
129	Low-cost and high safe manganese-based aqueous battery for grid energy storage and conversion. <i>Science Bulletin</i> , 2019 , 64, 1780-1787	10.6	31
128	Recent Progress of Porous Materials in Lithium-Metal Batteries. <i>Small Structures</i> , 2021 , 2, 2000118	8.7	31
127	A high voltage cathode of Na ₂ +2xFe ₂ (SO ₄) ₃ intensively protected by nitrogen-doped graphene with improved electrochemical performance of sodium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4354-4364	13	30
126	Crab-shell induced synthesis of ordered macroporous carbon nanofiber arrays coupled with MnCoO nanoparticles as bifunctional oxygen catalysts for rechargeable Zn-air batteries. <i>Nanoscale</i> , 2017 , 9, 11148-11157	11.7	29
125	Redox mediators as charge agents for changing electrochemical reactions. <i>Chemical Society Reviews</i> , 2020 , 49, 7454-7478	58.5	30
124	Regulating Zn Deposition via an Artificial Solid-Electrolyte Interface with Aligned Dipoles for Long Life Zn Anode. <i>Nano-Micro Letters</i> , 2021 , 13, 79	19.5	30
123	Black Phosphorus Stabilizing NaTiO/C Each Other with an Improved Electrochemical Property for Sodium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37163-37171	9.5	30
122	An additional discharge plateau of Mn ³⁺ in LiFe _{0.5} Mn _{0.5} PO ₄ at high current rates. <i>Electrochemistry Communications</i> , 2015 , 55, 6-9	5.1	29
121	An All-Solid-State Sodium Sulfur Battery Using a Sulfur/Carbonized Polyacrylonitrile Composite Cathode. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5263-5271	6.1	29
120	Preparation of nitrogen-containing mesoporous carbons and their application in supercapacitors. <i>New Journal of Chemistry</i> , 2013 , 37, 1768	3.6	29
119	Synthesis of highly crystalline spinel LiMn ₂ O ₄ by a soft chemical route and its electrochemical performance. <i>Electrochimica Acta</i> , 2007 , 52, 4525-4531	6.7	29
118	Al, B, and F doped LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ as cathode material of lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2007 , 11, 805-810	2.6	29
117	Revisiting the designing criteria of advanced solid electrolyte interphase on lithium metal anode under practical condition. <i>Nano Energy</i> , 2021 , 83, 105847	17.1	29

116	Dual Lithiophilic Structure for Uniform Li Deposition. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10616-10623	9.5	29
115	Organic Proton-Buffer Electrode to Separate Hydrogen and Oxygen Evolution in Acid Water Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4622-4626	16.4	28
114	A core-shell-structured TiO ₂ (B) nanofiber@porous RuO ₂ composite as a carbon-free catalytic cathode for LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21123-21132	13	27
113	Li ₂ TiSiO ₅ and expanded graphite nanocomposite anode material with improved rate performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2018 , 260, 695-702	6.7	26
112	Enhanced hydrogen evolution of MoS ₂ /RGO: vanadium, nitrogen dopants triggered new active sites and expanded interlayer. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2092-2099	6.8	26
111	Fluorinated carboxylate ester-based electrolyte for lithium ion batteries operated at low temperature. <i>Chemical Communications</i> , 2020 , 56, 9640-9643	5.8	25
110	Highly stable carbon coated Mg ₂ Si intermetallic nanoparticles for lithium-ion battery anode. <i>Journal of Power Sources</i> , 2018 , 384, 10-17	8.9	25
109	Molecular Design Strategy for Ordered Mesoporous Stoichiometric Metal Oxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15863-15868	16.4	25
108	Comparison of thermal stability between micro- and nano-sized materials for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2013 , 33, 115-118	5.1	25
107	Promoting Rechargeable Batteries Operated at Low Temperature. <i>Accounts of Chemical Research</i> , 2021 , 54, 3883-3894	24.3	25
106	Stabilized Rechargeable Aqueous Zinc Batteries Using Ethylene Glycol as Water Blocker. <i>ChemSusChem</i> , 2020 , 13, 5556-5564	8.3	25
105	A Multifunction Lithium/Carbon Battery System Using a Dual Electrolyte. <i>ACS Energy Letters</i> , 2017 , 2, 36-44	20.1	23
104	Integrating Desalination and Energy Storage using a Saltwater-based Hybrid Sodium-ion Supercapacitor. <i>ChemSusChem</i> , 2018 , 11, 1741-1745	8.3	23
103	In-situ generation of Li ₂ FeSiO ₄ /C nanocomposite as cathode material for lithium ion battery. <i>Electrochimica Acta</i> , 2014 , 133, 564-569	6.7	23
102	Li/Garnet Interface Stabilization by Thermal-Decomposition Vapor Deposition of an Amorphous Carbon Layer. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5346-5349	16.4	22
101	Interconnected sandwich structure carbon/Si-SiO ₂ /carbon nanospheres composite as high performance anode material for lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2014 , 23, 315-323	12	22
100	A hybrid aerogel of Co/Al layered double hydroxide/graphene with three-dimensional porous structure as a novel electrode material for supercapacitors. <i>RSC Advances</i> , 2015 , 5, 26017-26026	3.7	22
99	Extended low-voltage plateau capacity of hard carbon spheres anode for sodium ion batteries. <i>Journal of Power Sources</i> , 2020 , 476, 228550	8.9	22

98	K-doped Na ₃ Fe ₂ (PO ₄) ₃ cathode materials with high-stable structure for sodium-ion stored energy battery. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 939-946	5.7	22
97	An Al-doped high voltage cathode of Na ₄ Co ₃ (PO ₄) ₂ P ₂ O ₇ enabling highly stable 4 V full sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18940-18949	13	21
96	O ₃ -Type Layered Ni-Rich Oxide: A High-Capacity and Superior-Rate Cathode for Sodium-Ion Batteries. <i>Small</i> , 2019 , 15, e1905311	11	21
95	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. <i>Energy and Environmental Science</i> , 2020 , 13, 2124-2133	35.4	20
94	Three-Dimensional Ordered Macroporous FePO as High-Efficiency Catalyst for Rechargeable Li-O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31638-31645	9.5	20
93	Flexible Aqueous Lithium-Ion Battery with High Safety and Large Volumetric Energy Density. <i>Angewandte Chemie</i> , 2016 , 128, 7600-7603	3.6	20
92	Liquid Polymer Nanocomposites PEGME _n O ₂ and PEGME _n iO ₂ Prepared through Solvothermal Methods. <i>Chemistry of Materials</i> , 2006 , 18, 3850-3854	9.6	20
91	Industrial scale production of fibre batteries by a solution-extrusion method.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	20
90	A New Polyanion Na ₃ Fe ₂ (PO ₄) ₂ P ₂ O ₇ Cathode with High Electrochemical Performance for Sodium-Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 3788-3796	20.1	20
89	Intercalation Pseudocapacitive Nanoscale Nickel [email[protected]] Nanotubes as a High-Rate Cathode Material for Aqueous Sodium-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3655-3663	8.3	19
88	Base-acid hybrid water electrolysis. <i>Chemical Communications</i> , 2016 , 52, 3147-50	5.8	19
87	CNT-Decorated NaMnCo(PO) ₃ PO Microspheres as a Novel High-Voltage Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27813-27822	9.5	19
86	Highly Stable Na ₃ Fe ₂ (PO ₄) ₃ @Hard Carbon Sodium-Ion Full Cell for Low-Cost Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1380-1387	8.3	19
85	Re-building Daniell cell with a Li-ion exchange film. <i>Scientific Reports</i> , 2014 , 4, 6916	4.9	18
84	Scalable synthesizing nanospherical Na ₄ Fe ₃ (PO ₄) ₂ (P ₂ O ₇) growing on MCNTs as a high-performance cathode material for sodium-ion batteries. <i>Journal of Power Sources</i> , 2020 , 461, 228130	8.9	18
83	Recent Progress in Polyanionic Anode Materials for Li (Na)-Ion Batteries. <i>Electrochemical Energy Reviews</i> , 2021 , 4, 447-472	29.3	18
82	Ni ₃ [Fe(CN) ₆] ₂ nanocubes boost the catalytic activity of Pt for electrochemical hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1683-1689	6.8	18
81	Proton-Induced Dysfunction Mechanism of Cathodes in an Aqueous Lithium Ion Battery. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6929-6932	3.8	17

80	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25624-25638	16.4	17
79	A Thin-Film Direct Hydrogen Peroxide/Borohydride Micro Fuel Cell. <i>Advanced Energy Materials</i> , 2013 , 3, 713-717	21.8	16
78	A Rechargeable Li-CO ₂ Battery with a Gel Polymer Electrolyte. <i>Angewandte Chemie</i> , 2017 , 129, 9254-9258	3.6	15
77	S _{0.87} Se _{0.13} /CPAN composites as high capacity and stable cycling performance cathode for lithium sulfur battery. <i>Electrochimica Acta</i> , 2018 , 281, 789-795	6.7	15
76	Decoupled amphoteric water electrolysis and its integration with MnZn battery for flexible utilization of renewables. <i>Energy and Environmental Science</i> , 2021 , 14, 883-889	35.4	15
75	Synthesis of ZnSb@C microflower composites and their enhanced electrochemical performance for lithium-ion and sodium-ion batteries. <i>New Journal of Chemistry</i> , 2017 , 41, 13060-13066	3.6	14
74	Micro-sized organometallic compound of ferrocene as high-performance anode material for advanced lithium-ion batteries. <i>Journal of Power Sources</i> , 2018 , 375, 102-105	8.9	14
73	Fabrication of Dual-Modified Carbon Network Enabling Improved Electronic and Ionic Conductivities for Fast and Durable Li ₂ TiSiO ₅ Anodes. <i>ChemElectroChem</i> , 2019 , 6, 3020-3029	4.3	13
72	A sulfurBePO ₄ nanocomposite cathode for stable and anti-self-discharge lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17926-17932	13	13
71	Ni ₃ (BO ₃) ₂ as anode material with high capacity and excellent rate performance for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 363, 285-291	14.7	13
70	Nano-Cu-embedded carbon for dendrite-free lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22930-22938	13	12
69	Layer-structured NbSe ₂ anode material for sodium-ion and potassium-ion batteries. <i>Ionics</i> , 2019 , 25, 4171-4177	2.7	12
68	A New Strategy of Constructing a Highly Fluorinated Solid-Electrolyte Interface towards High-Performance Lithium Anode. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000154	4.6	12
67	Decoupling Hydrogen and Oxygen Production in Acidic Water Electrolysis Using a Polytriphenylamine-Based Battery Electrode. <i>Angewandte Chemie</i> , 2018 , 130, 2954-2958	3.6	12
66	Positive Surface Pseudocapacitive Behavior-Induced Fast and Large Li-ion Storage in Mesoporous LiMnPO ₄ @C Nanofibers. <i>ChemSusChem</i> , 2019 , 12, 3817-3826	8.3	12
65	Spinel-Layered Intergrowth Composite Cathodes for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45997-46004	9.5	12
64	Combining water reduction and liquid fuel oxidization by nickel hydroxide for flexible hydrogen production. <i>Energy Storage Materials</i> , 2018 , 11, 260-266	19.4	12
63	A High-Rate and Long-Life Rechargeable Battery Operated at 25 °C. <i>Batteries and Supercaps</i> , 2020 , 3, 1016-1020	5.6	11

62	Garnet-Based All-Ceramic Lithium Battery Enabled by LiBOCl Solder. <i>IScience</i> , 2020 , 23, 101071	6.1	11
61	Using Na ₇ V ₄ (P ₂ O ₇) ₄ (PO ₄) with superior Na storage performance as bipolar electrodes to build a novel high-energy-density symmetric sodium-ion full battery. <i>Journal of Power Sources</i> , 2020 , 451, 227734	8.9	11
60	Free-Standing Sandwich-Structured Flexible Film Electrode Composed of NaTiO Nanowires@CNT and Reduced Graphene Oxide for Advanced Sodium-Ion Batteries. <i>ACS Omega</i> , 2017 , 2, 5726-5736	3.9	11
59	Fundamental studies on the synthesis of supported metal nanoparticles: steric hindrance and coordination effects of anionic stabilizers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15418		11
58	Sol-gel synthesis of porous Na ₃ Fe ₂ (PO ₄) ₃ with enhanced sodium-ion storage capability. <i>Ionics</i> , 2019 , 25, 1083-1090	2.7	11
57	An all-climate CFx/Li battery with mechanism-guided electrolyte. <i>Energy Storage Materials</i> , 2021 , 42, 477-483	19.4	11
56	An aqueous manganese/lead battery for large-scale energy storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5959-5967	13	10
55	Oxygen vacancies enhance the electrochemical performance of carbon-coated TiP ₂ O ₇ -y anode in aqueous lithium ion batteries. <i>Electrochimica Acta</i> , 2019 , 320, 134555	6.7	10
54	Aqueous Li-ion cells with superior cycling performance using multi-channelled polyaniline/Fe ₂ O ₃ nanotube anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20177-20181	13	10
53	Ultrathin Silicon Nanolayer Implanted Ni _x Si/Ni Nanoparticles as Superlong-Cycle Lithium-Ion Anode Material. <i>Small Structures</i> , 2021 , 2, 2000126	8.7	10
52	SiO _x and carbon double-layer coated Si nanorods as anode materials for lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 101008-101015	3.7	9
51	All-Climate Iron-Based Sodium-Ion Full Cell for Energy Storage. <i>Advanced Functional Materials</i> , 2021 , 31, 2102856	15.6	9
50	Mechanism-of-Action Elucidation of Reversible Li-CO Batteries Using the Water-in-Salt Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7396-7404	9.5	9
49	High performance TiP ₂ O ₇ nanoporous microsphere as anode material for aqueous lithium-ion batteries. <i>Science China Chemistry</i> , 2019 , 62, 118-125	7.9	8
48	A Simple Prelithiation Strategy To Build a High-Rate and Long-Life Lithium-Ion Battery with Improved Low-Temperature Performance. <i>Angewandte Chemie</i> , 2017 , 129, 16833-16837	3.6	8
47	Cubic Manganese Potassium Hexacyanoferrate Regulated by Controlling of the Water and Defects as a High-Capacity and Stable Cathode Material for Rechargeable Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26924-26935	9.5	8
46	Anchoring an Artificial Solid Electrolyte Interphase Layer on a 3D Current Collector for High-Performance Lithium Anodes. <i>Angewandte Chemie</i> , 2019 , 131, 2115-2119	3.6	8
45	Stable High-Voltage Aqueous Zinc Battery Based on Carbon-Coated NaVPO ₄ F Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3223-3231	8.3	8

44	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. <i>Angewandte Chemie</i> , 2021 , 133, 25828	3.6	8
43	A Desolvation-Free Sodium Dual-Ion Chemistry for High Power Density and Extremely Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23858-23862	16.4	8
42	Ammonium-ion batteries with a wide operating temperature window from -40 to 80°C. <i>EScience</i> , 2021 , 1, 212-218		8
41	Lithium ion storage in lithium titanium germanate. <i>Nano Energy</i> , 2019 , 66, 104094	17.1	7
40	Solid-electrolyte interphase formation process on Li ₂ TiSiO ₅ anode in LiPF ₆ -based carbonate electrolyte. <i>Journal of Power Sources</i> , 2020 , 467, 228292	8.9	7
39	Salt-rich solid electrolyte interphase for safer high-energy-density Li metal batteries with limited Li excess. <i>Chemical Communications</i> , 2020 , 56, 8257-8260	5.8	7
38	Molecular Design Strategy for Ordered Mesoporous Stoichiometric Metal Oxide. <i>Angewandte Chemie</i> , 2019 , 131, 16010-16015	3.6	6
37	Ultralong-Life Cathode for Aqueous Zinc-Organic Batteries via Pouring 9,10-Phenanthraquinone into Active Carbon. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	6
36	Multishelled Ni ₂ P Microspheres as Multifunctional Sulfur Host 3D-Printed Cathode Materials Ensuring High Areal Capacity of Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 6097-6106	8.3	6
35	Ferromagnetic 1D-Fe ₃ O ₄ @C Microrods Boost Polysulfide Anchoring for Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3921-3927	6.1	6
34	Hierarchical porous ZnMnO yolk-shell microspheres with superior lithium storage properties enabled by a unique one-step conversion mechanism.. <i>RSC Advances</i> , 2018 , 8, 31388-31395	3.7	6
33	Niobium-Doped Titanosilicate Sittinakite Anode with Low Working Potential and High Rate for Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4399-4405	8.3	5
32	Bio-Inspired Stable Lithium-Metal Anodes by Co-depositing Lithium with a 2D Vermiculite Shuttle. <i>Angewandte Chemie</i> , 2019 , 131, 6266-6272	3.6	5
31	Synergistic Effects of Salt Concentration and Working Temperature towards Dendrite-Free Lithium Deposition. <i>Research</i> , 2019 , 2019, 7481319	7.8	5
30	Dendrite-Free and Long-Cycling Sodium Metal Batteries Enabled by Sodium-Ether Cointercalated Graphite Anode. <i>Advanced Functional Materials</i> , 2021 , 31, 2009778	15.6	5
29	A rechargeable metal-free full-liquid sulfur-bromine battery for sustainable energy storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20737-20745	13	5
28	Boron Nitride-Based Release Agent Coating Stabilizes Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ /Li Interface with Superior Lean-Lithium Electrochemical Performance and Thermal Stability. <i>Advanced Functional Materials</i> , 2201136	15.6	5
27	Unusual Mesoporous Titanium Niobium Oxides Realizing Sodium-Ion Batteries Operated at -40°C.. <i>Advanced Materials</i> , 2022 , e2202873	24	5

26	Li/Na Ion Intercalation Process into Sodium Titanosilicate as Anode Material. <i>Batteries and Supercaps</i> , 2019 , 2, 867-873	5.6	4
25	Anomalous lithium storage in a novel nanonet composed by SnO ₂ nanoparticles and poly(ethylene glycol) chains. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2845		4
24	Layer Controllable Graphene Using Graphite Intercalation Compounds with Different Stage Numbers through Li Conversion Reaction. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500496	4.6	4
23	Sodium-Ion Batteries: O ₃ -Type Layered Ni-Rich Oxide: A High-Capacity and Superior-Rate Cathode for Sodium-Ion Batteries (Small 52/2019). <i>Small</i> , 2019 , 15, 1970282	11	4
22	Lithium dendrites suppressed by low temperature in-situ anti-perovskite coated garnet solid-state electrolyte. <i>Journal of Power Sources</i> , 2021 , 500, 229982	8.9	4
21	Regulating Intercalation of Layered Compounds for Electrochemical Energy Storage and Electrocatalysis. <i>Advanced Functional Materials</i> , 2104543	15.6	4
20	Organic Proton-Buffer Electrode to Separate Hydrogen and Oxygen Evolution in Acid Water Electrolysis. <i>Angewandte Chemie</i> , 2019 , 131, 4670-4674	3.6	3
19	Hypophosphites as Eco-Compatible Fuels for Membrane-Free Direct Liquid Fuel Cells. <i>Chemistry - A European Journal</i> , 2018 , 24, 10310-10314	4.8	3
18	Nitrogen-Doped Porous Carbon Framework Supports Ultrafine FeS ₂ Nanoparticles as Advanced Performance Anode Materials for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6874-6882	6.1	3
17	Na _{1.68} H _{0.32} Ti ₂ O ₃ SiO ₄ ·0.76H ₂ O as a Low-Potential Anode Material for Sodium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	3
16	Progress, challenges and perspectives of computational studies on glassy superionic conductors for solid-state batteries. <i>Journal of Materials Chemistry A</i> ,	13	3
15	Lithium-Metal Anodes: Bending-Tolerant Anodes for Lithium-Metal Batteries (Adv. Mater. 1/2018). <i>Advanced Materials</i> , 2018 , 30, 1870005	24	2
14	Dual oxidation by hybrid electrode: Efficiency enhancement of direct hypophosphite fuel cell. <i>Journal of Power Sources</i> , 2019 , 438, 226983	8.9	2
13	Leaf-like Graphene Oxide with a Carbon Nanotube Midrib and Its Application in Energy Storage Devices. <i>Advanced Functional Materials</i> , 2013 , 23, n/a-n/a	15.6	2
12	Prussian Blue Cathode with Intercalation Pseudocapacitive Behavior for Low-Temperature Batteries. <i>Advanced Energy and Sustainability Research</i> , 2100105	1.6	2
11	Realizing Improved Sodium-Ion Storage by Introducing Carbonyl Groups and Closed Micropores into a Biomass-Derived Hard Carbon Anode. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47728-47739	9.5	2
10	A Desolvation-Free Sodium Dual-Ion Chemistry for High Power Density and Extremely Low Temperature. <i>Angewandte Chemie</i> , 2021 , 133, 24051	3.6	2
9	Hybrid Li-Ion Capacitor Operated within an All-Climate Temperature Range from -60 to +55 °C. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45630-45638	9.5	2

8	Towards high-performance aqueous zinc-ion battery via cesium ion intercalated vanadium oxide nanorods. <i>Chemical Engineering Journal</i> , 2022 , 442, 136349	14.7	2
7	Theory-Guided Design of Anode Catalysts for Hydrogenous Liquid Fuels. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17494-17502	3.8	1
6	Polypyrrole-Coated KMn[Fe(CN)] Stabilizing Its Interfaces and Inhibiting Irreversible Phase Transition during the Zinc Storage Process in Aqueous Batteries.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
5	Li/Garnet Interface Stabilization by Thermal-Decomposition Vapor Deposition of an Amorphous Carbon Layer. <i>Angewandte Chemie</i> , 2020 , 132, 5384-5387	3.6	0
4	Fluorinated Carbon Materials and the Applications in Energy Storage Systems. <i>ACS Applied Energy Materials</i> ,	6.1	0
3	Electronic Structure of Anode Material Li ₂ TiSiO ₅ and Its Structural Evolution during Lithiation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3733-3744	3.8	0
2	A New Germanium-Based Anode Material with High Stability for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11883-11890	8.3	0
1	Nonstoichiometric Molybdenum Trioxide Adjustable Energy Barrier Enabling Ultralong-Life All-Solid-State Lithium Batteries.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 60907-60920	9.5	0