Yong-Yao Xia

List of Publications by Year in Descending Order

259 papers	20,520 citations	69 h-index	137 g-index
276 ext. papers	24,735 ext. citations	12.4 avg, IF	7.53 L-index

#	Paper	IF	Citations
259	Industrial scale production of fibre batteries by a solution-extrusion method.. *Nature Nanotechnology*, **2022**,	28.7	20
258	Towards high-performance aqueous zinc-ion battery via cesium ion intercalated vanadium oxide nanorods. *Chemical Engineering Journal*, **2022**, 442, 136349	14.7	2
257	Unusual Mesoporous Titanium Niobium Oxides Realizing Sodium-Ion Batteries Operated at -40℃.. *Advanced Materials*, **2022**, e2202873	24	5
256	Ultralong-Life Cathode for Aqueous Zinc-Organic Batteries via Pouring 9,10-Phenanthraquinone into Active Carbon. *ACS Applied Materials & Interfaces*, **2021**,	9.5	6
255	Electronic Structure of Anode Material Li2TiSiO5 and Its Structural Evolution during Lithiation. *Journal of Physical Chemistry C*, **2021**, 125, 3733-3744	3.8	0
254	Promoting Rechargeable Batteries Operated at Low Temperature. *Accounts of Chemical Research*, **2021**, 54, 3883-3894	24.3	25
253	Whole-Voltage-Range Oxygen Redox in P2-Layered Cathode Materials for Sodium-Ion Batteries. *Advanced Materials*, **2021**, 33, e2008194	24	39
252	Recent Progress in Polyanionic Anode Materials for Li (Na)-Ion Batteries. *Electrochemical Energy Reviews*, **2021**, 4, 447-472	29.3	18
251	Multishelled Ni2P Microspheres as Multifunctional Sulfur Host 3D-Printed Cathode Materials Ensuring High Areal Capacity of Lithium–Sulfur Batteries. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 6097-6106	8.3	6
250	Ferromagnetic 1D-Fe3O4@C Microrods Boost Polysulfide Anchoring for Lithium–Sulfur Batteries. *ACS Applied Energy Materials*, **2021**, 4, 3921-3927	6.1	6
249	Revisiting the designing criteria of advanced solid electrolyte interphase on lithium metal anode under practical condition. *Nano Energy*, **2021**, 83, 105847	17.1	29
248	Nitrogen-Doped Porous Carbon Framework Supports Ultrafine FeS2 Nanoparticles as Advanced Performance Anode Materials for Sodium-Ion Batteries. *ACS Applied Energy Materials*, **2021**, 4, 6874-6882	6.1	3
247	All-Climate Iron-Based Sodium-Ion Full Cell for Energy Storage. *Advanced Functional Materials*, **2021**, 31, 2102856	15.6	9
246	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. *ACS Applied Materials & Interfaces*, **2021**, 13, 26924-26935	9.5	8
245	Decoupled amphoteric water electrolysis and its integration with Mn–Zn battery for flexible utilization of renewables. *Energy and Environmental Science*, **2021**, 14, 883-889	35.4	15
244	Ultrathin Silicon Nanolayer Implanted NixSi/Ni Nanoparticles as Superlong-Cycle Lithium-Ion Anode Material. *Small Structures*, **2021**, 2, 2000126	8.7	10
243	Mechanism-of-Action Elucidation of Reversible Li-CO Batteries Using the Water-in-Salt Electrolyte. *ACS Applied Materials & Interfaces*, **2021**, 13, 7396-7404	9.5	9

242	Dendrite-Free and Long-Cycling Sodium Metal Batteries Enabled by Sodium-Ether Cointercalated Graphite Anode. *Advanced Functional Materials*, **2021**, 31, 2009778	15.6	5
241	Stable High-Voltage Aqueous Zinc Battery Based on Carbon-Coated NaVPO4F Cathode. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 3223-3231	8.3	8
240	Regulating Zn Deposition via an Artificial Solid-Electrolyte Interface with Aligned Dipoles for Long Life Zn Anode. *Nano-Micro Letters*, **2021**, 13, 79	19.5	30
239	Lithium dendrites suppressed by low temperature in-situ anti-perovskite coated garnet solid-state electrolyte. *Journal of Power Sources*, **2021**, 500, 229982	8.9	4
238	A New Germanium-Based Anode Material with High Stability for Lithium-Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11883-11890	8.3	0
237	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. *Angewandte Chemie*, **2021**, 133, 25828	3.6	8
236	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. *Angewandte Chemie - International Edition*, **2021**, 60, 25624-25638	16.4	17
235	Realizing Improved Sodium-Ion Storage by Introducing Carbonyl Groups and Closed Micropores into a Biomass-Derived Hard Carbon Anode. *ACS Applied Materials & Interfaces*, **2021**, 13, 47728-47739	9.5	2
234	A Desolvation-Free Sodium Dual-Ion Chemistry for High Power Density and Extremely Low Temperature. *Angewandte Chemie*, **2021**, 133, 24051	3.6	2
233	Scalable production of high-performing woven lithium-ion fibre batteries. *Nature*, **2021**, 597, 57-63	50.4	69
232	A Desolvation-Free Sodium Dual-Ion Chemistry for High Power Density and Extremely Low Temperature. *Angewandte Chemie - International Edition*, **2021**, 60, 23858-23862	16.4	8
231	Hybrid Li-Ion Capacitor Operated within an All-Climate Temperature Range from -60 to +55 °C. *ACS Applied Materials & Interfaces*, **2021**, 13, 45630-45638	9.5	2
230	An all-climate CFx/Li battery with mechanism-guided electrolyte. *Energy Storage Materials*, **2021**, 42, 477-483	19.4	11
229	Recent Progress of Porous Materials in Lithium-Metal Batteries. *Small Structures*, **2021**, 2, 2000118	8.7	31
228	Ammonium-ion batteries with a wide operating temperature window from −40 to 80 °C. *EScience*, **2021**, 1, 212-218		8
227	Polypyrrole-Coated KMn[Fe(CN)] Stabilizing Its Interfaces and Inhibiting Irreversible Phase Transition during the Zinc Storage Process in Aqueous Batteries.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	1
226	Nonstoichiometric Molybdenum Trioxide Adjustable Energy Barrier Enabling Ultralong-Life All-Solid-State Lithium Batteries.. *ACS Applied Materials & Interfaces*, **2021**, 13, 60907-60920	9.5	0
225	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. *Energy and Environmental Science*, **2020**, 13, 2124-2133	35.4	20

224	Solid-electrolyte interphase formation process on Li2TiSiO5 anode in LiPF6-based carbonate electrolyte. *Journal of Power Sources*, **2020**, 467, 228292	8.9	7
223	In situ structural evolution of the multi-site alloy electrocatalyst to manipulate the intermediate for enhanced water oxidation reaction. *Energy and Environmental Science*, **2020**, 13, 2200-2208	35.4	41
222	Salt-rich solid electrolyte interphase for safer high-energy-density Li metal batteries with limited Li excess. *Chemical Communications*, **2020**, 56, 8257-8260	5.8	7
221	A High-Rate and Long-Life Rechargeable Battery Operated at −75 oC. *Batteries and Supercaps*, **2020**, 3, 1016-1020	5.6	11
220	Low-Temperature Charge/Discharge of Rechargeable Battery Realized by Intercalation Pseudocapacitive Behavior. *Advanced Science*, **2020**, 7, 2000196	13.6	45
219	Fluorinated carboxylate ester-based electrolyte for lithium ion batteries operated at low temperature. *Chemical Communications*, **2020**, 56, 9640-9643	5.8	25
218	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. *Advanced Functional Materials*, **2020**, 30, 2002824	15.6	36
217	Garnet-Based All-Ceramic Lithium Battery Enabled by LiBOCl Solder. *IScience*, **2020**, 23, 101071	6.1	11
216	Organic Cathode Materials for Rechargeable Zinc Batteries: Mechanisms, Challenges, and Perspectives. *ChemSusChem*, **2020**, 13, 2160-2185	8.3	59
215	Intercalation Pseudocapacitive Nanoscale Nickel Nanotubes as a High-Rate Cathode Material for Aqueous Sodium-Ion Battery. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 3655-3663	8.3	19
214	An organic/inorganic electrode-based hydronium-ion battery. *Nature Communications*, **2020**, 11, 959	17.4	65
213	An aqueous manganese–lead battery for large-scale energy storage. *Journal of Materials Chemistry A*, **2020**, 8, 5959-5967	13	10
212	Highly Reversible Zn Anode Enabled by Controllable Formation of Nucleation Sites for Zn-Based Batteries. *Advanced Functional Materials*, **2020**, 30, 1908528	15.6	239
211	Li/Garnet Interface Stabilization by Thermal-Decomposition Vapor Deposition of an Amorphous Carbon Layer. *Angewandte Chemie - International Edition*, **2020**, 59, 5346-5349	16.4	22
210	Using Na7V4(P2O7)4(PO4) with superior Na storage performance as bipolar electrodes to build a novel high-energy-density symmetric sodium-ion full battery. *Journal of Power Sources*, **2020**, 451, 227734	8.9	11
209	Li/Garnet Interface Stabilization by Thermal-Decomposition Vapor Deposition of an Amorphous Carbon Layer. *Angewandte Chemie*, **2020**, 132, 5384-5387	3.6	0
208	Scalable synthesizing nanospherical Na4Fe3(PO4)2(P2O7) growing on MCNTs as a high-performance cathode material for sodium-ion batteries. *Journal of Power Sources*, **2020**, 461, 228130	8.9	18
207	A New Strategy of Constructing a Highly Fluorinated Solid-Electrolyte Interface towards High-Performance Lithium Anode. *Advanced Materials Interfaces*, **2020**, 7, 2000154	4.6	12

206	In-situ growth of vertically aligned MoS2 nanowalls on reduced graphene oxide enables a large capacity and highly stable anode for sodium ion storage. *Journal of Power Sources*, **2020**, 445, 227271	8.9	34
205	Enabling Mg metal anodes rechargeable in conventional electrolytes by fast ionic transport interphase. *National Science Review*, **2020**, 7, 333-341	10.8	49
204	Highly Stable Na3Fe2(PO4)3@Hard Carbon Sodium-Ion Full Cell for Low-Cost Energy Storage. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1380-1387	8.3	19
203	Nickel and cobalt Co-substituted spinel ZnMn2O4@N-rGO for increased capacity and stability as a cathode material for rechargeable aqueous zinc-ion battery. *Electrochimica Acta*, **2020**, 331, 135296	6.7	35
202	Improved electrochemical reversibility of Zn plating/stripping: a promising approach to suppress water-induced issues through the formation of H-bonding. *Materials Today Energy*, **2020**, 18, 100563	7	37
201	Redox mediators as charge agents for changing electrochemical reactions. *Chemical Society Reviews*, **2020**, 49, 7454-7478	58.5	30
200	A New Polyanion Na3Fe2(PO4)P2O7 Cathode with High Electrochemical Performance for Sodium-Ion Batteries. *ACS Energy Letters*, **2020**, 5, 3788-3796	20.1	20
199	Stabilized Rechargeable Aqueous Zinc Batteries Using Ethylene Glycol as Water Blocker. *ChemSusChem*, **2020**, 13, 5556-5564	8.3	25
198	Extended low-voltage plateau capacity of hard carbon spheres anode for sodium ion batteries. *Journal of Power Sources*, **2020**, 476, 228550	8.9	22
197	Theory-Guided Design of Anode Catalysts for Hydrogenous Liquid Fuels. *Journal of Physical Chemistry C*, **2020**, 124, 17494-17502	3.8	1
196	Spinel-Layered Intergrowth Composite Cathodes for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 45997-46004	9.5	12
195	High areal loading and long-life cycle stability of lithium-sulfur batteries achieved by a dual-function ZnS-modified separator. *Chemical Engineering Journal*, **2020**, 390, 124653	14.7	38
194	Recent Advances in Polymer Electrolytes for Zinc Ion Batteries: Mechanisms, Properties, and Perspectives. *Advanced Energy Materials*, **2020**, 10, 1903977	21.8	144
193	Lithium ion storage in lithium titanium germanate. *Nano Energy*, **2019**, 66, 104094	17.1	7
192	Nano-Cu-embedded carbon for dendrite-free lithium metal anodes. *Journal of Materials Chemistry A* , **2019**, 7, 22930-22938	13	12
191	Low-cost and high safe manganese-based aqueous battery for grid energy storage and conversion. *Science Bulletin*, **2019**, 64, 1780-1787	10.6	31
190	Organic Proton-Buffer Electrode to Separate Hydrogen and Oxygen Evolution in Acid Water Electrolysis. *Angewandte Chemie*, **2019**, 131, 4670-4674	3.6	3
189	Organic Proton-Buffer Electrode to Separate Hydrogen and Oxygen Evolution in Acid Water Electrolysis. *Angewandte Chemie - International Edition*, **2019**, 58, 4622-4626	16.4	28

188	Niobium-Doped Titanosilicate Sitinakite Anode with Low Working Potential and High Rate for Sodium-Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4399-4405	8.3	5
187	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
186	Building an Interfacial Framework: Li/Garnet Interface Stabilization through a Cu6Sn5 Layer. *ACS Energy Letters*, **2019**, 4, 1725-1731	20.1	52
185	Li/Na Ion Intercalation Process into Sodium Titanosilicate as Anode Material. *Batteries and Supercaps*, **2019**, 2, 867-873	5.6	4
184	Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. *ACS Applied Materials & Interfaces*, **2019**, 11, 20796-20803	9.5	51
183	Layer-structured NbSe2 anode material for sodium-ion and potassium-ion batteries. *Ionics*, **2019**, 25, 4171-4177	2.7	12
182	Toward high energy-density and long cycling-lifespan lithium ion capacitors: a 3D carbon modified low-potential Li2TiSiO5 anode coupled with a lignin-derived activated carbon cathode. *Journal of Materials Chemistry A*, **2019**, 7, 8234-8244	13	38
181	Sandwich, Vertical-Channeled Thick Electrodes with High Rate and Cycle Performance. *Advanced Functional Materials*, **2019**, 29, 1809196	15.6	49
180	Fabrication of Dual-Modified Carbon Network Enabling Improved Electronic and Ionic Conductivities for Fast and Durable Li2TiSiO5 Anodes. *ChemElectroChem*, **2019**, 6, 3020-3029	4.3	13
179	High performance TiP2O7 nanoporous microsphere as anode material for aqueous lithium-ion batteries. *Science China Chemistry*, **2019**, 62, 118-125	7.9	8
178	A Metal-Organic Framework Host for Highly Reversible Dendrite-free Zinc Metal Anodes. *Joule*, **2019**, 3, 1289-1300	27.8	351
177	Creating an Air-Stable Sulfur-Doped Black Phosphorus-TiO2 Composite as High-Performance Anode Material for Sodium-Ion Storage. *Advanced Functional Materials*, **2019**, 29, 1900535	15.6	36
176	Efficient Oxygen Electrocatalyst for Zn-Air Batteries: Carbon Dots and CoS Nanoparticles in a N,S-Codoped Carbon Matrix. *ACS Applied Materials & Interfaces*, **2019**, 11, 14085-14094	9.5	66
175	Bio-Inspired Stable Lithium-Metal Anodes by Co-depositing Lithium with a 2D Vermiculite Shuttle. *Angewandte Chemie*, **2019**, 131, 6266-6272	3.6	5
174	Molecular Design Strategy for Ordered Mesoporous Stoichiometric Metal Oxide. *Angewandte Chemie*, **2019**, 131, 16010-16015	3.6	6
173	Molecular Design Strategy for Ordered Mesoporous Stoichiometric Metal Oxide. *Angewandte Chemie - International Edition*, **2019**, 58, 15863-15868	16.4	25
172	A versatile single-ion electrolyte with a Grotthuss-like Li conduction mechanism for dendrite-free Li metal batteries. *Energy and Environmental Science*, **2019**, 12, 2741-2750	35.4	49
171	An Al-doped high voltage cathode of Na4Co3(PO4)2P2O7 enabling highly stable 4 V full sodium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 18940-18949	13	21

170	CNT-Decorated NaMnCo(PO)PO Microspheres as a Novel High-Voltage Cathode Material for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 27813-27822	9.5	19
169	Rose-like vanadium disulfide coated by hydrophilic hydroxyvanadium oxide with improved electrochemical performance as cathode material for aqueous zinc-ion batteries. *Journal of Power Sources*, **2019**, 437, 226917	8.9	35
168	Oxygen vacancies enhance the electrochemical performance of carbon-coated TiP2O7-y anode in aqueous lithium ion batteries. *Electrochimica Acta*, **2019**, 320, 134555	6.7	10
167	An All-Solid-State Sodium–Sulfur Battery Using a Sulfur/Carbonized Polyacrylonitrile Composite Cathode. *ACS Applied Energy Materials*, **2019**, 2, 5263-5271	6.1	29
166	Positive Surface Pseudocapacitive Behavior-Induced Fast and Large Li-ion Storage in Mesoporous LiMnPO @C Nanofibers. *ChemSusChem*, **2019**, 12, 3817-3826	8.3	12
165	Dual oxidation by hybrid electrode: Efficiency enhancement of direct hypophosphite fuel cell. *Journal of Power Sources*, **2019**, 438, 226983	8.9	2
164	O3-Type Layered Ni-Rich Oxide: A High-Capacity and Superior-Rate Cathode for Sodium-Ion Batteries. *Small*, **2019**, 15, e1905311	11	21
163	Synergistic Effects of Salt Concentration and Working Temperature towards Dendrite-Free Lithium Deposition. *Research*, **2019**, 2019, 7481319	7.8	5
162	Dual Lithiophilic Structure for Uniform Li Deposition. *ACS Applied Materials & Interfaces*, **2019**, 11, 10616-10623	9.5	29
161	High-Energy Rechargeable Metallic Lithium Battery at −70 °C Enabled by a Cosolvent Electrolyte. *Angewandte Chemie*, **2019**, 131, 5679-5683	3.6	38
160	High-Energy Rechargeable Metallic Lithium Battery at -70 °C Enabled by a Cosolvent Electrolyte. *Angewandte Chemie - International Edition*, **2019**, 58, 5623-5627	16.4	97
159	Overall structural modification of a layered Ni-rich cathode for enhanced cycling stability and rate capability at high voltage. *Journal of Materials Chemistry A*, **2019**, 7, 6080-6089	13	76
158	Sodium-Ion Batteries: O3-Type Layered Ni-Rich Oxide: A High-Capacity and Superior-Rate Cathode for Sodium-Ion Batteries (Small 52/2019). *Small*, **2019**, 15, 1970282	11	4
157	Anchoring an Artificial Solid-Electrolyte Interphase Layer on a 3D Current Collector for High-Performance Lithium Anodes. *Angewandte Chemie - International Edition*, **2019**, 58, 2093-2097	16.4	69
156	Tuning P2-Structured Cathode Material by Na-Site Mg Substitution for Na-Ion Batteries. *Journal of the American Chemical Society*, **2019**, 141, 840-848	16.4	147
155	Sol-gel synthesis of porous Na3Fe2(PO4)3 with enhanced sodium-ion storage capability. *Ionics*, **2019**, 25, 1083-1090	2.7	11
154	Anchoring an Artificial Solid‐Electrolyte Interphase Layer on a 3D Current Collector for High-Performance Lithium Anodes. *Angewandte Chemie*, **2019**, 131, 2115-2119	3.6	8
153	Ni3(BO3)2 as anode material with high capacity and excellent rate performance for sodium-ion batteries. *Chemical Engineering Journal*, **2019**, 363, 285-291	14.7	13

152	K-doped Na3Fe2(PO4)3 cathode materials with high-stable structure for sodium-ion stored energy battery. *Journal of Alloys and Compounds*, **2019**, 784, 939-946	5.7	22
151	Recent Progress of Rechargeable Batteries Using Mild Aqueous Electrolytes. *Small Methods*, **2019**, 3, 1800272	12.8	259
150	Organic Batteries Operated at ?0°C. *Joule*, **2018**, 2, 902-913	27.8	172
149	A flexible polymer-based Li?air battery using a reduced graphene oxide/Li composite anode. *Journal of Materials Chemistry A*, **2018**, 6, 6022-6032	13	42
148	Highly stable carbon coated Mg2Si intermetallic nanoparticles for lithium-ion battery anode. *Journal of Power Sources*, **2018**, 384, 10-17	8.9	25
147	Uniform Ordered Two-Dimensional Mesoporous TiO Nanosheets from Hydrothermal-Induced Solvent-Confined Monomicelle Assembly. *Journal of the American Chemical Society*, **2018**, 140, 4135-4143	16.4	170
146	Integrating Desalination and Energy Storage using a Saltwater-based Hybrid Sodium-ion Supercapacitor. *ChemSusChem*, **2018**, 11, 1741-1745	8.3	23
145	Ultrasmall TiO-Coated Reduced Graphene Oxide Composite as a High-Rate and Long-Cycle-Life Anode Material for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 14818-14826	9.5	45
144	A clean and membrane-free chlor-alkali process with decoupled Cl and H/NaOH production. *Nature Communications*, **2018**, 9, 438	17.4	42
143	Decoupling Hydrogen and Oxygen Production in Acidic Water Electrolysis Using a Polytriphenylamine-Based Battery Electrode. *Angewandte Chemie - International Edition*, **2018**, 57, 2904-2908	16.4	45
142	A high voltage cathode of Na2+2xFe2?(SO4)3 intensively protected by nitrogen-doped graphene with improved electrochemical performance of sodium storage. *Journal of Materials Chemistry A*, **2018**, 6, 4354-4364	13	30
141	Li2TiSiO5 and expanded graphite nanocomposite anode material with?improved rate performance for lithium-ion batteries. *Electrochimica Acta*, **2018**, 260, 695-702	6.7	26
140	Lithium-Metal Anodes: Bending-Tolerant Anodes for Lithium-Metal Batteries (Adv. Mater. 1/2018). *Advanced Materials*, **2018**, 30, 1870005	24	2
139	Synergetic Protective Effect of the Ultralight MWCNTs/NCQDs Modified Separator for Highly Stable Lithium?Sulfur Batteries. *Advanced Energy Materials*, **2018**, 8, 1702288	21.8	191
138	Symmetric Sodium-Ion Capacitor Based on NaMnO Nanorods for Low-Cost and High-Performance Energy Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 11689-11698	9.5	49
137	Progress in Aqueous Rechargeable Sodium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1703008	21.8	188
136	Decoupling Hydrogen and Oxygen Production in Acidic Water Electrolysis Using a Polytriphenylamine-Based Battery Electrode. *Angewandte Chemie*, **2018**, 130, 2954-2958	3.6	12
135	Polyaniline-intercalated manganese dioxide nanolayers as a high-performance cathode material for an aqueous zinc-ion battery. *Nature Communications*, **2018**, 9, 2906	17.4	618

134	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. *Angewandte Chemie*, **2018**, 130, 11911-11915	3.6	106
133	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. *Angewandte Chemie - International Edition*, **2018**, 57, 11737-11741	16.4	261
132	Carbon quantum dots anchoring MnO2/graphene aerogel exhibits excellent performance as electrode materials for supercapacitor. *Journal of Power Sources*, **2018**, 398, 167-174	8.9	79
131	Hypophosphites as Eco-Compatible Fuels for Membrane-Free Direct Liquid Fuel Cells. *Chemistry - A European Journal*, **2018**, 24, 10310-10314	4.8	3
130	S0.87Se0.13/CPAN composites as high capacity and stable cycling performance cathode for lithium sulfur battery. *Electrochimica Acta*, **2018**, 281, 789-795	6.7	15
129	The development in aqueous lithium-ion batteries. *Journal of Energy Chemistry*, **2018**, 27, 1521-1535	12	65
128	Micro-sized organometallic compound of ferrocene as high-performance anode material for advanced lithium-ion batteries. *Journal of Power Sources*, **2018**, 375, 102-105	8.9	14
127	In situ encapsulation of core–shell-structured Co@Co3O4 into nitrogen-doped carbon polyhedra as a bifunctional catalyst for rechargeable Zn–air batteries. *Journal of Materials Chemistry A*, **2018**, 6, 1443-1453	13	129
126	Bending-Tolerant Anodes for Lithium-Metal Batteries. *Advanced Materials*, **2018**, 30, 1703891	24	95
125	Combining water reduction and liquid fuel oxidization by nickel hydroxide for flexible hydrogen production. *Energy Storage Materials*, **2018**, 11, 260-266	19.4	12
124	A rechargeable metal-free full-liquid sulfur–bromine battery for sustainable energy storage. *Journal of Materials Chemistry A*, **2018**, 6, 20737-20745	13	5
123	Na1.68H0.32Ti2O3SiO4·1.76H2O as a Low-Potential Anode Material for Sodium-Ion Battery. *ACS Applied Energy Materials*, **2018**,	6.1	3
122	Black Phosphorus Stabilizing NaTiO/C Each Other with an Improved Electrochemical Property for Sodium-Ion Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 37163-37171	9.5	30
121	High Capacity and Cycle-Stable Hard Carbon Anode for Nonflammable Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 38141-38150	9.5	35
120	Challenges, mitigation strategies and perspectives in development of zinc-electrode materials and fabrication for rechargeable zinc–air batteries. *Energy and Environmental Science*, **2018**, 11, 3075-3095	35.4	212
119	Hierarchical porous ZnMnO yolk-shell microspheres with superior lithium storage properties enabled by a unique one-step conversion mechanism.. *RSC Advances*, **2018**, 8, 31388-31395	3.7	6
118	Ni3[Fe(CN)6]2 nanocubes boost the catalytic activity of Pt for electrochemical hydrogen evolution. *Inorganic Chemistry Frontiers*, **2018**, 5, 1683-1689	6.8	18
117	In Situ Growth of NiFe Alloy Nanoparticles Embedded into N-Doped Bamboo-like Carbon Nanotubes as a Bifunctional Electrocatalyst for Zn-Air Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 26178-26187	9.5	66

116	Enhanced hydrogen evolution of MoS2/RGO: vanadium, nitrogen dopants triggered new active sites and expanded interlayer. *Inorganic Chemistry Frontiers*, **2018**, 5, 2092-2099	6.8	26
115	Aqueous Lithium-Ion Batteries Using Polyimide-Activated Carbon Composites Anode and Spinel LiMn2O4 Cathode. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 1503-1508	8.3	34
114	All-Organic Rechargeable Battery with Reversibility Supported by "Water-in-Salt" Electrolyte. *Chemistry - A European Journal*, **2017**, 23, 2560-2565	4.8	95
113	TiPO and Expanded Graphite Nanocomposite as Anode Material for Aqueous Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 8075-8082	9.5	39
112	Li2TiSiO5: a low potential and large capacity Ti-based anode material for Li-ion batteries. *Energy and Environmental Science*, **2017**, 10, 1456-1464	35.4	73
111	Carbon-coated Li4Ti5O12 nanoparticles with high electrochemical performance as anode material in sodium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 10902-10908	13	39
110	A PEO-based gel polymer electrolyte for lithium ion batteries. *RSC Advances*, **2017**, 7, 23494-23501	3.7	115
109	A Multifunction Lithium□Carbon Battery System Using a Dual Electrolyte. *ACS Energy Letters*, **2017**, 2, 36-44	20.1	23
108	A Long-Life Lithium□Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. *Angewandte Chemie*, **2017**, 129, 7613-7617	3.6	42
107	A Long-Life Lithium-Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. *Angewandte Chemie - International Edition*, **2017**, 56, 7505-7509	16.4	100
106	A Rechargeable Li-CO Battery with a Gel Polymer Electrolyte. *Angewandte Chemie - International Edition*, **2017**, 56, 9126-9130	16.4	115
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