

Hongfei Li

List of Publications by Citations

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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.

246
papers

19,928
citations

80
h-index

135
g-index

268
ext. papers

26,436
ext. citations

15.6
avg, IF

7.45
L-index

#	Paper	IF	Citations
246	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. <i>Energy and Environmental Science</i> , 2018 , 11, 941-951	35.4	520
245	Three-dimensional strutted graphene grown by substrate-free sugar blowing for high-power-density supercapacitors. <i>Nature Communications</i> , 2013 , 4, 2905	17.4	514
244	A self-healable and highly stretchable supercapacitor based on a dual crosslinked polyelectrolyte. <i>Nature Communications</i> , 2015 , 6, 10310	17.4	500
243	Advanced rechargeable zinc-based batteries: Recent progress and future perspectives. <i>Nano Energy</i> , 2019 , 62, 550-587	17.1	471
242	Nanoporous CaCO ₃ Coatings Enabled Uniform Zn Stripping/Plating for Long-Life Zinc Rechargeable Aqueous Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1801090	21.8	450
241	Nanostructured Polypyrrole as a flexible electrode material of supercapacitor. <i>Nano Energy</i> , 2016 , 22, 422-438	17.1	447
240	Photoluminescent Ti C MXene Quantum Dots for Multicolor Cellular Imaging. <i>Advanced Materials</i> , 2017 , 29, 1604847	24	439
239	Highly Flexible, Freestanding Supercapacitor Electrode with Enhanced Performance Obtained by Hybridizing Polypyrrole Chains with MXene. <i>Advanced Energy Materials</i> , 2016 , 6, 1600969	21.8	439
238	Polyhedral Oligosilsesquioxane-Modified Boron Nitride Nanotube Based Epoxy Nanocomposites: An Ideal Dielectric Material with High Thermal Conductivity. <i>Advanced Functional Materials</i> , 2013 , 23, 1824-1831	15.6	420
237	Texturing in situ: N,S-enriched hierarchically porous carbon as a highly active reversible oxygen electrocatalyst. <i>Energy and Environmental Science</i> , 2017 , 10, 742-749	35.4	374
236	From industrially weavable and knittable highly conductive yarns to large wearable energy storage textiles. <i>ACS Nano</i> , 2015 , 9, 4766-75	16.7	359
235	A flexible rechargeable aqueous zinc manganese-dioxide battery working at 20 °C. <i>Energy and Environmental Science</i> , 2019 , 12, 706-715	35.4	333
234	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9141-9145	16.4	329
233	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. <i>ACS Nano</i> , 2018 , 12, 3140-3148	16.7	305
232	Multifunctional Energy Storage and Conversion Devices. <i>Advanced Materials</i> , 2016 , 28, 8344-8364	24	305
231	Voltage issue of aqueous rechargeable metal-ion batteries. <i>Chemical Society Reviews</i> , 2020 , 49, 180-232	58.5	301
230	Do Zinc Dendrites Exist in Neutral Zinc Batteries: A Developed Electrohealing Strategy to In Situ Rescue In-Service Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903778	24	285

229	Initiating a mild aqueous electrolyte Co ₃ O ₄ /Zn battery with 2.2 V-high voltage and 5000-cycle lifespan by a Co(III) rich-electrode. <i>Energy and Environmental Science</i> , 2018 , 11, 2521-2530	35.4	282
228	A Superior EMnO Cathode and a Self-Healing Zn-EMnO Battery. <i>ACS Nano</i> , 2019 , 13, 10643-10652	16.7	278
227	Recent Progress on Flexible and Wearable Supercapacitors. <i>Small</i> , 2017 , 13, 1701827	11	260
226	Single-Site Active Iron-Based Bifunctional Oxygen Catalyst for a Compressible and Rechargeable Zinc-Air Battery. <i>ACS Nano</i> , 2018 , 12, 1949-1958	16.7	255
225	Hydrogel Electrolytes for Flexible Aqueous Energy Storage Devices. <i>Advanced Functional Materials</i> , 2018 , 28, 1804560	15.6	253
224	Magnetic-Assisted, Self-Healable, Yarn-Based Supercapacitor. <i>ACS Nano</i> , 2015 , 9, 6242-51	16.7	248
223	Weavable, Conductive Yarn-Based NiCo//Zn Textile Battery with High Energy Density and Rate Capability. <i>ACS Nano</i> , 2017 , 11, 8953-8961	16.7	237
222	Recent progresses in high-energy-density all pseudocapacitive-electrode-materials-based asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9443-9464	13	218
221	Dendrites in Zn-Based Batteries. <i>Advanced Materials</i> , 2020 , 32, e2001854	24	211
220	Polyurethane/Cotton/Carbon Nanotubes Core-Spun Yarn as High Reliability Stretchable Strain Sensor for Human Motion Detection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24837-43	9.5	198
219	Hydrogen-Free and Dendrite-Free All-Solid-State Zn-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e1908124	24	186
218	Super-Stretchable Zinc-Air Batteries Based on an Alkaline-Tolerant Dual-Network Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , 2019 , 9, 1803046	21.8	185
217	Flexible Waterproof Rechargeable Hybrid Zinc Batteries Initiated by Multifunctional Oxygen Vacancies-Rich Cobalt Oxide. <i>ACS Nano</i> , 2018 , 12, 8597-8605	16.7	184
216	Achieving Both High Voltage and High Capacity in Aqueous Zinc-Ion Battery for Record High Energy Density. <i>Advanced Functional Materials</i> , 2019 , 29, 1906142	15.6	184
215	Achieving High-Voltage and High-Capacity Aqueous Rechargeable Zinc Ion Battery by Incorporating Two-Species Redox Reaction. <i>Advanced Energy Materials</i> , 2019 , 9, 1902446	21.8	183
214	Towards wearable electronic devices: A quasi-solid-state aqueous lithium-ion battery with outstanding stability, flexibility, safety and breathability. <i>Nano Energy</i> , 2018 , 44, 164-173	17.1	176
213	Activating C-Coordinated Iron of Iron Hexacyanoferrate for Zn Hybrid-Ion Batteries with 10 000-Cycle Lifespan and Superior Rate Capability. <i>Advanced Materials</i> , 2019 , 31, e1901521	24	173
212	Evaluating Flexibility and Wearability of Flexible Energy Storage Devices. <i>Joule</i> , 2019 , 3, 613-619	27.8	171

211	Mn ₃ O ₄ nanoparticles on layer-structured Ti ₃ C ₂ MXene towards the oxygen reduction reaction and zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20818-20823	13	166
210	Ultrathin nanoporous Fe ₃ O ₄ /carbon nanosheets with enhanced supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1952	13	149
209	Solid-State Rechargeable Zn//NiCo and Zn-Air Batteries with Ultralong Lifetime and High Capacity: The Role of a Sodium Polyacrylate Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , 2018 , 8, 1802288	21.8	146
208	A Wholly Degradable, Rechargeable Zn-TiC MXene Capacitor with Superior Anti-Self-Discharge Function. <i>ACS Nano</i> , 2019 , 13, 8275-8283	16.7	145
207	A Highly Durable, Transferable, and Substrate-Versatile High-Performance All-Polymer Micro-Supercapacitor with Plug-and-Play Function. <i>Advanced Materials</i> , 2017 , 29, 1605137	24	139
206	Hydrogen-Substituted Graphdiyne Ion Tunnels Directing Concentration Redistribution for Commercial-Grade Dendrite-Free Zinc Anodes. <i>Advanced Materials</i> , 2020 , 32, e2001755	24	136
205	A flexible solid-state zinc ion hybrid supercapacitor based on co-polymer derived hollow carbon spheres. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7784-7790	13	134
204	Organic quinones towards advanced electrochemical energy storage: recent advances and challenges. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23378-23415	13	133
203	Toward Practical High-Areal-Capacity Aqueous Zinc-Metal Batteries: Quantifying Hydrogen Evolution and a Solid-Ion Conductor for Stable Zinc Anodes. <i>Advanced Materials</i> , 2021 , 33, e2007406	24	133
202	A soft yet device-level dynamically super-tough supercapacitor enabled by an energy-dissipative dual-crosslinked hydrogel electrolyte. <i>Nano Energy</i> , 2019 , 58, 732-742	17.1	123
201	Zwitterionic Sulfobetaine Hydrogel Electrolyte Building Separated Positive/Negative Ion Migration Channels for Aqueous Zn-MnO ₂ Batteries with Superior Rate Capabilities. <i>Advanced Energy Materials</i> , 2020 , 10, 2000035	21.8	123
200	A Highly Elastic and Reversibly Stretchable All-Polymer Supercapacitor. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15707-15711	16.4	122
199	Enhancement on Cycle Performance of Zn Anodes by Activated Carbon Modification for Neutral Rechargeable Zinc Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A1439-A1444	3.9	121
198	An Intrinsically Self-Healing NiCo Zn Rechargeable Battery with a Self-Healable Ferric-Ion-Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9810-9813	16.4	121
197	Polymer composites of boron nitride nanotubes and nanosheets. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10049-10061	7.1	119
196	A Nanofibrillated Cellulose/Polyacrylamide Electrolyte-Based Flexible and Sewable High-Performance Zn-MnO Battery with Superior Shear Resistance. <i>Small</i> , 2018 , 14, e1803978	11	119
195	Quasi-Isolated Au Particles as Heterogeneous Seeds To Guide Uniform Zn Deposition for Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6490-6496	6.1	117
194	An Overview of Fiber-Shaped Batteries with a Focus on Multifunctionality, Scalability, and Technical Difficulties. <i>Advanced Materials</i> , 2020 , 32, e1902151	24	117

193	Component Matters: Paving the Roadmap toward Enhanced Electrocatalytic Performance of Graphitic CN-Based Catalysts via Atomic Tuning. <i>ACS Nano</i> , 2017 , 11, 6004-6014	16.7	116
192	Highly anisotropic, multichannel wood carbon with optimized heteroatom doping for supercapacitor and oxygen reduction reaction. <i>Carbon</i> , 2018 , 130, 532-543	10.4	112
191	A shape memory supercapacitor and its application in smart energy storage textiles. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1290-1297	13	111
190	NaCl-templated synthesis of hierarchical porous carbon with extremely large specific surface area and improved graphitization degree for high energy density lithium ion capacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17057-17066	13	111
189	Capacitance Enhancement in a Semiconductor Nanostructure-Based Supercapacitor by Solar Light and a Self-Powered Supercapacitor-Photodetector System. <i>Advanced Functional Materials</i> , 2016 , 26, 4481-4490	15.6	105
188	A flexible rechargeable zinc-ion wire-shaped battery with shape memory function. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8549-8557	13	103
187	An electrochromic supercapacitor and its hybrid derivatives: quantifiably determining their electrical energy storage by an optical measurement. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21321-21327	13	102
186	Phase Transition Induced Unusual Electrochemical Performance of VCT MXene for Aqueous Zinc Hybrid-Ion Battery. <i>ACS Nano</i> , 2020 , 14, 541-551	16.7	99
185	A mechanically durable and device-level tough Zn-MnO ₂ battery with high flexibility. <i>Energy Storage Materials</i> , 2019 , 23, 636-645	19.4	97
184	Phosphorene as Cathode Material for High-Voltage, Anti-Self-Discharge Zinc Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2020 , 10, 2001024	21.8	96
183	A high performance fiber-shaped PEDOT@MnO ₂ //C@Fe ₃ O ₄ asymmetric supercapacitor for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14877-14883	13	96
182	A smart safe rechargeable zinc ion battery based on sol-gel transition electrolytes. <i>Science Bulletin</i> , 2018 , 63, 1077-1086	10.6	94
181	Toward enhanced activity of a graphitic carbon nitride-based electrocatalyst in oxygen reduction and hydrogen evolution reactions via atomic sulfur doping. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12205-12211	13	92
180	Redox-Active Organic Sodium Anthraquinone-2-Sulfonate (AQS) Anchored on Reduced Graphene Oxide for High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1802088	21.8	91
179	Construction of a hierarchical 3D Co/N-carbon electrocatalyst for efficient oxygen reduction and overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 489-497	13	90
178	Pseudocapacitive anthraquinone modified with reduced graphene oxide for flexible symmetric all-solid-state supercapacitors. <i>Carbon</i> , 2018 , 127, 459-468	10.4	90
177	Porous single-crystal NaTi ₂ (PO ₄) ₃ via liquid transformation of TiO ₂ nanosheets for flexible aqueous Na-ion capacitor. <i>Nano Energy</i> , 2018 , 50, 623-631	17.1	88
176	Advances in Flexible and Wearable Energy-Storage Textiles. <i>Small Methods</i> , 2018 , 2, 1800124	12.8	87

175	Recent Progress of MXene-Based Nanomaterials in Flexible Energy Storage and Electronic Devices. <i>Energy and Environmental Materials</i> , 2018 , 1, 183-195	13	87
174	Non-metallic charge carriers for aqueous batteries. <i>Nature Reviews Materials</i> , 2021 , 6, 109-123	73.3	85
173	Top-Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9571-9576	16.4	84
172	Binder-free hierarchical VS ₂ electrodes for high-performance aqueous Zn ion batteries towards commercial level mass loading. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16330-16338	13	83
171	Initiating Hexagonal MoO ₃ for Superb-Stable and Fast NH ₃ Storage Based on Hydrogen Bond Chemistry. <i>Advanced Materials</i> , 2020 , 32, e1907802	24	83
170	A Universal Principle to Design Reversible Aqueous Batteries Based on Deposition/Dissolution Mechanism. <i>Advanced Energy Materials</i> , 2019 , 9, 1901838	21.8	83
169	Extremely Stable Polypyrrole Achieved via Molecular Ordering for Highly Flexible Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2435-40	9.5	82
168	Highly Flexible and Self-Healable Thermal Interface Material Based on Boron Nitride Nanosheets and a Dual Cross-Linked Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10078-10084	9.5	81
167	Polymers for supercapacitors: Boosting the development of the flexible and wearable energy storage. <i>Materials Science and Engineering Reports</i> , 2020 , 139, 100520	30.9	80
166	A Flexible Solid-State Aqueous Zinc Hybrid Battery with Flat and High-Voltage Discharge Plateau. <i>Advanced Energy Materials</i> , 2019 , 9, 1902473	21.8	79
165	Towards high areal capacitance, rate capability, and tailorable supercapacitors: Co ₃ O ₄ @polypyrrole core-shell nanorod bundle array electrodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19058-19065	13	79
164	Highly Compressible Cross-Linked Polyacrylamide Hydrogel-Enabled Compressible Zn-MnO Battery and a Flexible Battery-Sensor System. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44527-44534	9.5	75
163	Highly Efficient Electrochemical Reduction of Nitrogen to Ammonia on Surface Termination Modified TiCT MXene Nanosheets. <i>ACS Nano</i> , 2020 , 14, 9089-9097	16.7	71
162	3D Graphene Fibers Grown by Thermal Chemical Vapor Deposition. <i>Advanced Materials</i> , 2018 , 30, e1705380	14	71
161	Hierarchically Bicontinuous Porous Copper as Advanced 3D Skeleton for Stable Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13552-13561	9.5	71
160	Vertically Aligned Sn ⁴⁺ Preintercalated Ti ₂ CTX MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. <i>Advanced Energy Materials</i> , 2020 , 10, 2001394	21.8	71
159	Highly Integrated Supercapacitor-Sensor Systems via Material and Geometry Design. <i>Small</i> , 2016 , 12, 3393-9	11	71
158	Enabling highly efficient, flexible and rechargeable quasi-solid-state zn-air batteries via catalyst engineering and electrolyte functionalization. <i>Energy Storage Materials</i> , 2019 , 20, 234-242	19.4	71

157	Light-permeable, photoluminescent microbatteries embedded in the color filter of a screen. <i>Energy and Environmental Science</i> , 2018 , 11, 2414-2422	35.4	70
156	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1011-1021	16.4	70
155	Stabilized Co ³⁺ /Co ⁴⁺ Redox Pair in In Situ Produced CoSe ₂ -Derived Cobalt Oxides for Alkaline Zn Batteries with 10 000-Cycle Lifespan and 1.9-V Voltage Plateau. <i>Advanced Energy Materials</i> , 2020 , 10, 2000892	21.8	66
154	Biopolymer-assisted synthesis of 3D interconnected Fe ₃ O ₄ @carbon core@shell as anode for asymmetric lithium ion capacitors. <i>Carbon</i> , 2018 , 140, 296-305	10.4	66
153	Carbon-Supported Nickel Selenide Hollow Nanowires as Advanced Anode Materials for Sodium-Ion Batteries. <i>Small</i> , 2018 , 14, 1702669	11	64
152	Nanostructured Anode Materials for Non-aqueous Lithium Ion Hybrid Capacitors. <i>Energy and Environmental Materials</i> , 2018 , 1, 75-87	13	63
151	Energy density issues of flexible energy storage devices. <i>Energy Storage Materials</i> , 2020 , 28, 264-292	19.4	61
150	A Usage Scenario Independent Air Chargeable Flexible Zinc Ion Energy Storage Device. <i>Advanced Energy Materials</i> , 2019 , 9, 1900509	21.8	59
149	Boron Element Nanowires Electrode for Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1703117	21.8	59
148	Fabrication of Boron Nitride Nanosheets by Exfoliation. <i>Chemical Record</i> , 2016 , 16, 1204-15	6.6	56
147	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 2001791	21.8	56
146	Biomimetic organohydrogel electrolytes for high-environmental adaptive energy storage devices. <i>EcoMat</i> , 2019 , 1, e12008	9.4	55
145	Recent advances in flexible aqueous zinc-based rechargeable batteries. <i>Nanoscale</i> , 2019 , 11, 17992-18008	17.7	54
144	Integrating a Triboelectric Nanogenerator and a Zinc-Ion Battery on a Designed Flexible 3D Spacer Fabric. <i>Small Methods</i> , 2018 , 2, 1800150	12.8	54
143	Self-healable electroluminescent devices. <i>Light: Science and Applications</i> , 2018 , 7, 102	16.7	52
142	Recent progress of fiber-shaped asymmetric supercapacitors. <i>Materials Today Energy</i> , 2017 , 5, 1-14	7	51
141	Inhibiting Grain Pulverization and Sulfur Dissolution of Bismuth Sulfide by Ionic Liquid Enhanced Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) for High-Performance Zinc-Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 7270-7280	16.7	51
140	Hydrothermal synthesis of blue-fluorescent monolayer BN and BCNO quantum dots for bio-imaging probes. <i>RSC Advances</i> , 2016 , 6, 79090-79094	3.7	51

139	Halogenated TiC MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. <i>ACS Nano</i> , 2021 , 15, 1077-1085	16.7	50
138	The rise of aqueous rechargeable batteries with organic electrode materials. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15479-15512	13	48
137	Dendrites issues and advances in Zn anode for aqueous rechargeable Zn-based batteries. <i>EcoMat</i> , 2020 , 2, e12035	9.4	48
136	Hydrated hybrid vanadium oxide nanowires as the superior cathode for aqueous Zn battery. <i>Materials Today Energy</i> , 2019 , 14, 100361	7	48
135	Calendar Life of Zn Batteries Based on Zn Anode with Zn Powder/Current Collector Structure. <i>Advanced Energy Materials</i> , 2021 , 11, 2003931	21.8	48
134	Initiating a Reversible Aqueous Zn/Sulfur Battery through a "Liquid Film". <i>Advanced Materials</i> , 2020 , 32, e2003070	24	47
133	Commencing an Acidic Battery Based on a Copper Anode with Ultrafast Proton-Regulated Kinetics and Superior Dendrite-Free Property. <i>Advanced Materials</i> , 2019 , 31, e1905873	24	46
132	Aqueous Zinc-Tellurium Batteries with Ultraflat Discharge Plateau and High Volumetric Capacity. <i>Advanced Materials</i> , 2020 , 32, e2001469	24	45
131	Folate-conjugated boron nitride nanospheres for targeted delivery of anticancer drugs. <i>International Journal of Nanomedicine</i> , 2016 , 11, 4573-4582	7.3	45
130	Grafted MXene/polymer electrolyte for high performance solid zinc batteries with enhanced shelf life at low/high temperatures. <i>Energy and Environmental Science</i> , 2021 , 14, 3492-3501	35.4	44
129	A zinc battery with ultra-flat discharge plateau through phase transition mechanism. <i>Nano Energy</i> , 2020 , 71, 104583	17.1	43
128	Electrospun N-Doped Hierarchical Porous Carbon Nanofiber with Improved Degree of Graphitization for High-Performance Lithium Ion Capacitor. <i>Chemistry - A European Journal</i> , 2018 , 24, 10460-10467	4.8	43
127	Flexible quasi-solid-state zinc ion batteries enabled by highly conductive carrageenan bio-polymer electrolyte.. <i>RSC Advances</i> , 2019 , 9, 16313-16319	3.7	42
126	A modularization approach for linear-shaped functional supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4580-4586	13	42
125	Pd doping-weakened intermediate adsorption to promote electrocatalytic nitrate reduction on TiO ₂ nanoarrays for ammonia production and energy supply with zinc/borate batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 3938-3944	35.4	41
124	Uniform Virus-Like Co ₉ S ₈ Electrocatalyst Derived from Prussian Blue Analog for Stretchable Fiber-Shaped Zn/Air Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1908945	15.6	40
123	Liquid-Free All-Solid-State Zinc Batteries and Encapsulation-Free Flexible Batteries Enabled by In Situ Constructed Polymer Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23836-23844	16.4	40
122	Ni ₃ S ₂ /Ni nanosheet arrays for high-performance flexible zinc hybrid batteries with evident two-stage charge and discharge processes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18915-18924	13	39

121	Enhanced Redox Kinetics and Duration of Aqueous I ⁻ /I ⁰ Conversion Chemistry by MXene Confinement. <i>Advanced Materials</i> , 2021 , 33, e2006897	24	39
120	Activating the I ⁰ /I ⁺ redox couple in an aqueous I ₂ /I ⁻ battery to achieve a high voltage plateau. <i>Energy and Environmental Science</i> , 2021 , 14, 407-413	35.4	38
119	Multi-Functional Hydrogels for Flexible Zinc-Based Batteries Working under Extreme Conditions. <i>Advanced Energy Materials</i> , 2021 , 11, 2101749	21.8	38
118	Commencing mild Ag ⁺ /Zn batteries with long-term stability and ultra-flat voltage platform. <i>Energy Storage Materials</i> , 2020 , 25, 86-92	19.4	37
117	Simultaneous optimization of surface chemistry and pore morphology of 3D graphene-sulfur cathode via multi-ion modulation. <i>Journal of Power Sources</i> , 2016 , 321, 193-200	8.9	36
116	In situ formation of NaTi ₂ (PO ₄) ₃ cubes on Ti ₃ C ₂ MXene for dual-mode sodium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18525-18532	13	36
115	Zinc/selenium conversion battery: a system highly compatible with both organic and aqueous electrolytes. <i>Energy and Environmental Science</i> , 2021 , 14, 2441-2450	35.4	35
114	MXene chemistry, electrochemistry and energy storage applications. <i>Nature Reviews Chemistry</i> ,	34.6	35
113	Flexible Dual-Mode Tactile Sensor Derived from Three-Dimensional Porous Carbon Architecture. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22685-22693	9.5	33
112	Recent Advances in Electrode Fabrication for Flexible Energy-Storage Devices. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900083	6.8	33
111	Toward Enhancing Wearability and Fashion of Wearable Supercapacitor with Modified Polyurethane Artificial Leather Electrolyte. <i>Nano-Micro Letters</i> , 2018 , 10, 38	19.5	33
110	Robust reduced graphene oxide paper fabricated with a household non-stick frying pan: a large-area freestanding flexible substrate for supercapacitors. <i>RSC Advances</i> , 2015 , 5, 33981-33989	3.7	32
109	Temperature-Dependent Lipid Extraction from Membranes by Boron Nitride Nanosheets. <i>ACS Nano</i> , 2018 , 12, 2764-2772	16.7	32
108	pH-responsive charge-reversal polymer-functionalized boron nitride nanospheres for intracellular doxorubicin delivery. <i>International Journal of Nanomedicine</i> , 2018 , 13, 641-652	7.3	32
107	Proton-assisted calcium-ion storage in aromatic organic molecular crystal with coplanar stacked structure. <i>Nature Communications</i> , 2021 , 12, 2400	17.4	32
106	Facet-Controlling Agents Free Synthesis of Hematite Crystals with High-Index Planes: Excellent Photodegradation Performance and Mechanism Insight. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 142-51	9.5	31
105	Solvent-free fabrication of thermally conductive insulating epoxy composites with boron nitride nanoplatelets as fillers. <i>Nanoscale Research Letters</i> , 2014 , 9, 643	5	31
104	High-Energy and High-Power Nonaqueous Lithium-Ion Capacitors Based on Polypyrrole/Carbon Nanotube Composites as Pseudocapacitive Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15646-15655	9.5	30

103	Boosting the Cycling Stability of Aqueous Flexible Zn Batteries via F Doping in Nickel-Cobalt Carbonate Hydroxide Cathode. <i>Small</i> , 2020 , 16, e2001935	11	30
102	Insight on Organic Molecules in Aqueous Zn-Ion Batteries with an Emphasis on the Zn Anode Regulation. <i>Advanced Energy Materials</i> , 2102707	21.8	29
101	Stretchable Energy Storage Devices: From Materials and Structural Design to Device Assembly. <i>Advanced Energy Materials</i> , 2021 , 11, 2003308	21.8	28
100	Confining Aqueous Zn-Br Halide Redox Chemistry by TiCT MXene. <i>ACS Nano</i> , 2021 , 15, 1718-1726	16.7	28
99	Polyethyleneimine-functionalized boron nitride nanospheres as efficient carriers for enhancing the immunostimulatory effect of CpG oligodeoxynucleotides. <i>International Journal of Nanomedicine</i> , 2015 , 10, 5343-53	7.3	27
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