Hongfei Li

List of Publications by Year
in descending order

246 papers	33,849 citations	1888 102 h-index	4112 175 g-index
268 all docs	268 docs citations	268 times ranked	20018 citing authors

#	Article	IF	Citations
1	Vacancy Modulating Co₃Sn₂S₂ Topological Semimetal for Aqueous Zincâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	1.6	9
2	Vacancy Modulating Co₃Sn₂S₂ Topological Semimetal for Aqueous Zincâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, e202111826.	7.2	21
3	Smallâ€Dipoleâ€Moleculeâ€Containing Electrolytes for Highâ€Voltage Aqueous Rechargeable Batteries. Advanced Materials, 2022, 34, e2106180.	11.1	58
4	Stabilizing Interface pH by Nâ€Modified Graphdiyne for Dendriteâ€Free and Highâ€Rate Aqueous Znâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	1.6	24
5	Recent Advances in Electrolytes for â€œBeyond Aqueousâ€• Zincâ€Ion Batteries. Advanced Materials, 2022, 34, e2106409.	11.1	167
6	Relieving hydrogen evolution and anodic corrosion of aqueous aluminum batteries with hybrid electrolytes. Journal of Materials Chemistry A, 2022, 10, 4739-4748.	5.2	11
7	Twoâ€Electron Redox Chemistry Enabled Highâ€Performance Iodideâ€Ion Conversion Battery. Angewandte Chemie, 2022, 134, .	1.6	4
8	Twoâ€Electron Redox Chemistry Enabled Highâ€Performance Iodideâ€Ion Conversion Battery. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34
9	Insight on Organic Molecules in Aqueous Znâ€Ion Batteries with an Emphasis on the Zn Anode Regulation. Advanced Energy Materials, 2022, 12, .	10.2	208
10	Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry. Energy and Environmental Science, 2022, 15, 1086-1096.	15.6	141
11	In-situ grown porous protective layers with high binding strength for stable Zn anodes. Chemical Engineering Journal, 2022, 434, 134688.	6.6	35
12	Efficient Ammonia Electrosynthesis and Energy Conversion through a Znâ€Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst. Advanced Energy Materials, 2022, 12, .	10.2	108
13	Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries. Nature Communications, 2022, 13, 752.	5.8	49
14	A Versatile Cation Additive Enabled Highly Reversible Zinc Metal Anode. Advanced Energy Materials, 2022, 12, .	10.2	95
15	Highly Thermally/Electrochemically Stable I^{â^'}/I₃^{â^'}Bonded Organic Salts with High I Content for Longâ€Life Liâ€“I₂Batteries. Advanced Energy Materials, 2022, 12, .	10.2	40
16	Tellurium: A High-Performance Cathode for Magnesium Ion Batteries Based on a Conversion Mechanism. ACS Nano, 2022, 16, 5349-5357.	7.3	28
17	Etherâ€“Water Hybrid Electrolyte Contributing to Excellent Mg Ion Storage in Layered Sodium Vanadate. ACS Nano, 2022, 16, 6093-6102.	7.3	54
18	Dendrite Issues for Zinc Anodes in a Flexible Cell Configuration for Zincâ€Based Wearable Energyâ€Storage Devices. Angewandte Chemie - International Edition, 2022, 61, .	7.2	50

#	Article	IF	Citations
19	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti₃C₂ MXenes. ACS Nano, 2022, 16, 813-822.	7.3	90
20	Electrochemical Nitrate Production via Nitrogen Oxidation with Atomically Dispersed Fe on N-Doped Carbon Nanosheets. ACS Nano, 2022, 16, 655-663.	7.3	44
21	Sulfonated Graphene Aerogels Enable Safeâ€toâ€Use Flexible Perovskite Solar Modules. Advanced Energy Materials, 2022, 12, .	10.2	46
22	MXene chemistry, electrochemistry and energy storage applications. Nature Reviews Chemistry, 2022, 6, 389-404.	13.8	429
23	Mechanistic Study of Interfacial Modification for Stable Zn Anode Based on a Thin Separator. Small, 2022, 18, e2201045.	5.2	24
24	The magnetohydrodynamic effect enables a dendrite-free Zn anode in alkaline electrolytes. Journal of Materials Chemistry A, 2022, 10, 11971-11979.	5.2	24
25	Organic materialsâ€based cathode for zinc ion battery. SmartMat, 2022, 3, 565-581.	6.4	54
26	Highâ€Voltage Organic Cathodes for Zincâ€Ion Batteries through Electron Cloud and Solvation Structure Regulation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	60
27	Highâ€Voltage Organic Cathodes for Zincâ€Ion Batteries through Electron Cloud and Solvation Structure Regulation. Angewandte Chemie, 2022, 134, .	1.6	20
28	Low Infrared Emissivity and Strong Stealth of Ti-Based MXenes. Research, 2022, 2022, .	2.8	17
29	Phase-transition tailored nanoporous zinc metal electrodes for rechargeable alkaline zinc-nickel oxide hydroxide and zinc-air batteries. Nature Communications, 2022, 13, .	5.8	33
30	Rechargeable Aqueous Mnâ€Metal Battery Enabled by Inorganicâ€“Organic Interfaces. Angewandte Chemie - International Edition, 2022, 61, .	7.2	31
31	Rechargeable Aqueous Mnâ€Metal Battery Enabled by Inorganicâ€“Organic Interfaces. Angewandte Chemie, 2022, 134, .	1.6	0
32	BiOI Nanopaper As a High-Capacity, Long-Life and Insertion-Type Anode for a Flexible Quasi-Solid-State Zn-Ion Battery. ACS Applied Materials & Interfaces, 2022, 14, 25516-25523.	4.0	19
33	Ionic Liquid-Softened Polymer Electrolyte for Anti-Drying Flexible Zinc Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 27287-27293.	4.0	20
34	Non-metallic charge carriers for aqueous batteries. Nature Reviews Materials, 2021, 6, 109-123.	23.3	250
35	Highâ€Energy Aqueous Magnesium Hybrid Full Batteries Enabled by Carrierâ€Hosting Potential Compensation. Angewandte Chemie, 2021, 133, 5503-5512.	1.6	13
36	Highâ€Energy Aqueous Magnesium Hybrid Full Batteries Enabled by Carrierâ€Hosting Potential Compensation. Angewandte Chemie - International Edition, 2021, 60, 5443-5452.	7.2	37

#	Article	IF	Citations
37	Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zincâ€Iodine Battery with Improved Power and Energy Densities. Angewandte Chemie, 2021, 133, 3835-3842.	1.6	32
38	Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zincâ€Iodine Battery with Improved Power and Energy Densities. Angewandte Chemie - International Edition, 2021, 60, 3791-3798.	7.2	111
39	Stretchable Energy Storage Devices: From Materials and Structural Design to Device Assembly. Advanced Energy Materials, 2021, 11, 2003308.	10.2	61
40	Effects of Anion Carriers on Capacitance and Selfâ€Discharge Behaviors of Zinc Ion Capacitors. Angewandte Chemie, 2021, 133, 1024-1034.	1.6	21
41	Effects of Anion Carriers on Capacitance and Selfâ€Discharge Behaviors of Zinc Ion Capacitors. Angewandte Chemie - International Edition, 2021, 60, 1011-1021.	7.2	122
42	Grafted MXene/polymer electrolyte for high performance solid zinc batteries with enhanced shelf life at low/high temperatures. Energy and Environmental Science, 2021, 14, 3492-3501.	15.6	152
43	Activating the I⁰/I⁺ redox couple in an aqueous I₂â€“Zn battery to achieve a high voltage plateau. Energy and Environmental Science, 2021, 14, 407-413.	15.6	129
44	Confining Aqueous Znâ€“Br Halide Redox Chemistry by Ti₃C₂T_X MXene. ACS Nano, 2021, 15, 1718-1726.	7.3	78
45	Halogenated Ti₃C₂ MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. ACS Nano, 2021, 15, 1077-1085.	7.3	183
46	Toward Practical Highâ€Arealâ€Capacity Aqueous Zincâ€Metal Batteries: Quantifying Hydrogen Evolution and a Solidâ€Ion Conductor for Stable Zinc Anodes. Advanced Materials, 2021, 33, e2007406.	11.1	382
47	Reversible Intercalation of Alâ€Ions in Poly(3,4â€Ethylenedioxythiophene):Poly(4â€Styrenesulfonate) Electrode for Aqueous Electrochemical Capacitors with High Energy Density. Energy Technology, 2021, 9, 2001036.	1.8	7
48	Initiating a Roomâ€Temperature Rechargeable Aqueous Fluorideâ€Ion Battery with Long Lifespan through a Rational Buffering Phase Design. Advanced Energy Materials, 2021, 11, 2003714.	10.2	28
49	Calendar Life of Zn Batteries Based on Zn Anode with Zn Powder/Current Collector Structure. Advanced Energy Materials, 2021, 11, 2003931.	10.2	122
50	Rechargeable quasi-solid-state aqueous hybrid Al3+/H+ battery with 10,000 ultralong cycle stability and smart switching capability. Nano Research, 2021, 14, 4154-4162.	5.8	13
51	Electrochemically induced NiCoSe2@NiOOH/CoOOH heterostructures as multifunctional cathode materials for flexible hybrid zn batteries. Energy Storage Materials, 2021, 36, 427-434.	9.5	92
52	A Highly Stable and Durable Capacitive Strain Sensor Based on Dynamically Superâ€Tough Hydro/Organoâ€Gels. Advanced Functional Materials, 2021, 31, 2010830.	7.8	84
53	Proton-assisted calcium-ion storage in aromatic organic molecular crystal with coplanar stacked structure. Nature Communications, 2021, 12, 2400.	5.8	107
54	A reversible Zn-metal battery. Nature Nanotechnology, 2021, 16, 854-855.	15.6	41

#	Article	IF	Citations
55	Carbonaceous and Polymer Materials for Liâ€“S Batteries with an Emphasis on Flexible Devices. Advanced Energy and Sustainability Research, 2021, 2, 2000096.	2.8	6
56	Suppressing passivation layer of Al anode in aqueous electrolytes by complexation of H2PO4â^' to Al3+ and an electrochromic Al ion battery. Energy Storage Materials, 2021, 39, 412-418.	9.5	52
57	Manipulating anion intercalation enables a high-voltage aqueous dual ion battery. Nature Communications, 2021, 12, 3106.	5.8	104
58	A manganese hexacyanoferrate framework with enlarged ion tunnels and twoâ€species redox reaction for aqueous Al-ion batteries. Nano Energy, 2021, 84, 105945.	8.2	54
59	Energy-dissipative dual-crosslinked hydrogels for dynamically super-tough sensors. Science China Materials, 2021, 64, 2764-2776.	3.5	15
60	Cations Coordinationâ€Regulated Reversibility Enhancement for Aqueous Znâ€Ion Battery. Advanced Functional Materials, 2021, 31, 2105736.	7.8	59
61	Multiâ€Functional Hydrogels for Flexible Zincâ€Based Batteries Working under Extreme Conditions. Advanced Energy Materials, 2021, 11, 2101749.	10.2	116
62	Molecular Crowding Effect in Aqueous Electrolytes to Suppress Hydrogen Reduction Reaction and Enhance Electrochemical Nitrogen Reduction. Advanced Energy Materials, 2021, 11, 2101699.	10.2	73
63	Metal-Iodine and Metal-Bromine Batteries: A Review. Bulletin of the Chemical Society of Japan, 2021, 94, 2036-2042.	2.0	27
64	Electrolyte/Structure-Dependent Cocktail Mediation Enabling High-Rate/Low-Plateau Metal Sulfide Anodes for Sodium Storage. Nano-Micro Letters, 2021, 13, 178.	14.4	19
65	Highâ€Rate Aqueous Aluminumâ€Ion Batteries Enabled by Confined Iodine Conversion Chemistry. Small Methods, 2021, 5, e2100611.	4.6	26
66	Toward a Practical Zn Powder Anode: Ti₃C₂Tx MXene as a Lattice-Match Electrons/Ions Redistributor. ACS Nano, 2021, 15, 14631-14642.	7.3	137
67	Boron Nitride Nanosheet Dispersion at High Concentrations. ACS Applied Materials & Interfaces, 2021, 13, 44751-44759.	4.0	30
68	Battery-Sensor Hybrid: A New Gas Sensing Paradigm with Complete Energy Self-Sufficiency. ACS Applied Materials & Interfaces, 2021, 13, 46507-46517.	4.0	6
69	Multiâ€Functional Hydrogels for Flexible Zincâ€Based Batteries Working under Extreme Conditions (Adv.) Tj ETQq1 1 0.784314 rgBT	10.2	4
70	Zinc/selenium conversion battery: a system highly compatible with both organic and aqueous electrolytes. Energy and Environmental Science, 2021, 14, 2441-2450.	15.6	93
71	Enhanced Redox Kinetics and Duration of Aqueous I₂/I^{â^'} Conversion Chemistry by MXene Confinement. Advanced Materials, 2021, 33, e2006897.	11.1	121
72	Pd doping-weakened intermediate adsorption to promote electrocatalytic nitrate reduction on TiO₂ nanoarrays for ammonia production and energy supply with zincâ€“nitrate batteries. Energy and Environmental Science, 2021, 14, 3938-3944.	15.6	204

#	Article	IF	Citations
73	Human joint-inspired structural design for a bendable/foldable/stretchable/twistable battery: achieving multiple deformabilities. Energy and Environmental Science, 2021, 14, 3599-3608.	15.6	49
74	Categorizing wearable batteries: Unidirectional and omnidirectional deformable batteries. Matter, 2021, 4, 3146-3160.	5.0	44
75	Conversionâ€Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries. Advanced Materials, 2021, 33, e2105426.	11.1	48
76	Lowâ€Bandgap Organic Bulkâ€Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells. Advanced Materials, 2021, 33, e2105539.	11.1	89
77	Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries. Materials Today, 2021, 51, 87-95.	8.3	10
78	Reconstructing Vanadium Oxide with Anisotropic Pathways for a Durable and Fast Aqueous K-Ion Battery. ACS Nano, 2021, 15, 17717-17728.	7.3	30
79	Perspective on Micro-Supercapacitors. Frontiers in Chemistry, 2021, 9, 807500.	1.8	14
80	Flexible, Electrically Conductive, Nanostructured, Asymmetric Aerogel Films for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 59174-59184.	4.0	5
81	Polymers for supercapacitors: Boosting the development of the flexible and wearable energy storage. Materials Science and Engineering Reports, 2020, 139, 100520.	14.8	145
82	An Overview of Fiberâ€Shaped Batteries with a Focus on Multifunctionality, Scalability, and Technical Difficulties. Advanced Materials, 2020, 32, e1902151.	11.1	207
83	Commencing mild Agâ€“Zn batteries with long-term stability and ultra-flat voltage platform. Energy Storage Materials, 2020, 25, 86-92.	9.5	68
84	Phase Transition Induced Unusual Electrochemical Performance of V₂CT_X MXene for Aqueous Zinc Hybrid-Ion Battery. ACS Nano, 2020, 14, 541-551.	7.3	179
85	Voltage issue of aqueous rechargeable metal-ion batteries. Chemical Society Reviews, 2020, 49, 180-232.	18.7	522
86	A Longâ€Life Batteryâ€Type Electrochromic Window with Remarkable Energy Storage Ability. Solar Rrl, 2020, 4, 1900425.	3.1	37
87	Suppressing surface passivation of bimetallic phosphide by sulfur for long-life alkaline aqueous zinc batteries. Energy Storage Materials, 2020, 33, 230-238.	9.5	36
88	Liquidâ€Free Allâ€Solidâ€State Zinc Batteries and Encapsulationâ€Free Flexible Batteries Enabled by Inâ€…Situ Constructed Polymer Electrolyte. Angewandte Chemie, 2020, 132, 24044-24052.	1.6	45
89	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. Advanced Energy Materials, 2020, 10, 2001791.	10.2	128
90	A rechargeable Alâ€“N₂ battery for energy storage and highly efficient N₂ fixation. Energy and Environmental Science, 2020, 13, 2888-2895.	15.6	53

#	Article	IF	Citations
91	Vertically Aligned Sn⁴⁺ Preintercalated Ti₂CT_X MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. Advanced Energy Materials, 2020, 10, 2001394.	10.2	127
92	Initiating a wearable solid-state Mg hybrid ion full battery with high voltage, high capacity and ultra-long lifespan in air. Energy Storage Materials, 2020, 31, 451-458.	9.5	29
93	Dendrites in Znâ€Based Batteries. Advanced Materials, 2020, 32, e2001854.	11.1	601
94	Liquidâ€Free Allâ€Solidâ€State Zinc Batteries and Encapsulationâ€Free Flexible Batteries Enabled by Inâ€…Situ Constructed Polymer Electrolyte. Angewandte Chemie - International Edition, 2020, 59, 23836-23844.	7.2	102
95	Aqueous Zincâ€"Tellurium Batteries with Ultraflat Discharge Plateau and High Volumetric Capacity. Advanced Materials, 2020, 32, e2001469.	11.1	104
96	Metalâ€Tellurium Batteries: A Rising Energy Storage System. Small Structures, 2020, 1, 2000005.	6.9	46
97	Stabilized Co³⁺/Co⁴⁺ Redox Pair in In Situ Produced CoSe_{2â^'}_xâ€Derived Cobalt Oxides for Alkaline Zn Batteries with 10 000â€Cycle Lifespan and 1.9â€V Voltage Plateau. Advanced Energy Materials, 2020, 10, 2000892.	10.2	114
98	Phosphorene as Cathode Material for Highâ€Voltage, Antiâ€Selfâ€Discharge Zinc Ion Hybrid Capacitors. Advanced Energy Materials, 2020, 10, 2001024.	10.2	149
99	Hydrogenâ€Substituted Graphdiyne Ion Tunnels Directing Concentration Redistribution for Commercialâ€Grade Dendriteâ€Free Zinc Anodes. Advanced Materials, 2020, 32, e2001755.	11.1	261
100	The rise of aqueous rechargeable batteries with organic electrode materials. Journal of Materials Chemistry A, 2020, 8, 15479-15512.	5.2	90
101	Highly Efficient Electrochemical Reduction of Nitrogen to Ammonia on Surface Termination Modified Ti₃C₂T_x MXene Nanosheets. ACS Nano, 2020, 14, 9089-9097.	7.3	137
102	Integration designs toward newâ€generation wearable energy supplyâ€sensor systems for realâ€time health monitoring: A minireview. InformaÃ¤nÃ-MateriÃ¡ly, 2020, 2, 1109-1130.	8.5	35
103	A Longâ€Life Batteryâ€Type Electrochromic Window with Remarkable Energy Storage Ability. Solar Rrl, 2020, 4, 2070036.	3.1	27
104	Energy density issues of flexible energy storage devices. Energy Storage Materials, 2020, 28, 264-292.	9.5	106
105	Zwitterionic Sulfobetaine Hydrogel Electrolyte Building Separated Positive/Negative Ion Migration Channels for Aqueous Znâ€MnO₂ Batteries with Superior Rate Capabilities. Advanced Energy Materials, 2020, 10, 2000035.	10.2	287
106	Initiating a Reversible Aqueous Zn/Sulfur Battery through a â€œLiquid Filmâ€. Advanced Materials, 2020, 32, e2003070.	11.1	88
107	Boosting the Cycling Stability of Aqueous Flexible Zn Batteries via F Doping in Nickelâ€"Cobalt Carbonate Hydroxide Cathode. Small, 2020, 16, e2001935.	5.2	54
108	Dendrites issues and advances in Zn anode for aqueous rechargeable Znâ€based batteries. EcoMat, 2020, 2, e12035.	6.8	135

#	Article	IF	Citations
109	Initiating Hexagonal MoO₃ for Superbâ€Stable and Fast NH₄⁺ Storage Based on Hydrogen Bond Chemistry. Advanced Materials, 2020, 32, e1907802.	11.1	186
110	Hydrogenâ€Free and Dendriteâ€Free Allâ€Solidâ€State Znâ€Ion Batteries. Advanced Materials, 2020, 32, e1908121.	11.1	381
111	Metalâ€Tuned Acetylene Linkages in Hydrogen Substituted Graphdiyne Boosting the Electrochemical Oxygen Reduction. Small, 2020, 16, e1907341.	5.2	39
112	A zinc battery with ultra-flat discharge plateau through phase transition mechanism. Nano Energy, 2020, 71, 104583.	8.2	75
113	Uniform Virusâ€Like Coâ€“Nâ€“Cs Electrocatalyst Derived from Prussian Blue Analog for Stretchable Fiberâ€Shaped Znâ€“Air Batteries. Advanced Functional Materials, 2020, 30, 1908945.	7.8	81
114	RBC membrane camouflaged boron nitride nanospheres for enhanced biocompatible performance. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110964.	2.5	17
115	Quasi-Isolated Au Particles as Heterogeneous Seeds To Guide Uniform Zn Deposition for Aqueous Zinc-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 6490-6496.	2.5	247
116	A Superior Î´-MnO₂ Cathode and a Self-Healing Zn-Î´-MnO₂ Battery. ACS Nano, 2019, 13, 10643-10652.	7.3	535
117	Cl^{â€“}/SO₃^{2â€“}-Codoped Poly(3,4-ethylenedioxythiophene) That Interpenetrates and Encapsulates Porous Fe₂O₃ To Form Composite Nanoframeworks for Stable Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 30801-30809.	4.0	18
118	A Highly Elastic and Reversibly Stretchable Allâ€Polymer Supercapacitor. Angewandte Chemie, 2019, 131, 15854-15858.	1.6	42
119	A Highly Elastic and Reversibly Stretchable Allâ€Polymer Supercapacitor. Angewandte Chemie - International Edition, 2019, 58, 15707-15711.	7.2	181
120	Ni₃S₂/Ni nanosheet arrays for high-performance flexible zinc hybrid batteries with evident two-stage charge and discharge processes. Journal of Materials Chemistry A, 2019, 7, 18915-18924.	5.2	55
121	A Universal Principle to Design Reversible Aqueous Batteries Based on Depositionâ€“Dissolution Mechanism. Advanced Energy Materials, 2019, 9, 1901838.	10.2	151
122	Toward Multifunctional and Wearable Smart Skins with Energyâ€Harvesting, Touchâ€Sensing, and Exteroceptionâ€Visualizing Capabilities by an Allâ€Polymer Design. Advanced Electronic Materials, 2019, 5, 1900553.	2.6	41
123	Achieving Both High Voltage and High Capacity in Aqueous Zincâ€Ion Battery for Record High Energy Density. Advanced Functional Materials, 2019, 29, 1906142.	7.8	285
124	Do Zinc Dendrites Exist in Neutral Zinc Batteries: A Developed Electrohealing Strategy to In Situ Rescue Inâ€Service Batteries. Advanced Materials, 2019, 31, e1903778.	11.1	494
125	Achieving Highâ€Voltage and Highâ€Capacity Aqueous Rechargeable Zinc Ion Battery by Incorporating Twoâ€Species Redox Reaction. Advanced Energy Materials, 2019, 9, 1902446.	10.2	341
126	A Flexible Solidâ€State Aqueous Zinc Hybrid Battery with Flat and Highâ€Voltage Discharge Plateau. Advanced Energy Materials, 2019, 9, 1902473.	10.2	136

#	Article	IF	Citations
127	Commencing an Acidic Battery Based on a Copper Anode with Ultrafast Protonâ€Regulated Kinetics and Superior Dendriteâ€Free Property. Advanced Materials, 2019, 31, e1905873.	11.1	77
128	Recent advances in flexible aqueous zinc-based rechargeable batteries. Nanoscale, 2019, 11, 17992-18008.	2.8	83
129	In situ doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. Nanoscale Horizons, 2019, 4, 642-646.	4.1	10
130	A soft yet device-level dynamically super-tough supercapacitor enabled by an energy-dissipative dual-crosslinked hydrogel electrolyte. Nano Energy, 2019, 58, 732-742.	8.2	187
131	A flexible rechargeable aqueous zinc manganese-dioxide battery working at â^'20 Â°C. Energy and Environmental Science, 2019, 12, 706-715.	15.6	511
132	Crystallized lithium titanate nanosheets prepared via spark plasma sintering for ultra-high rate lithium ion batteries. Journal of Materials Chemistry A, 2019, 7, 455-460.	5.2	26
133	Advanced rechargeable zinc-based batteries: Recent progress and future perspectives. Nano Energy, 2019, 62, 550-587.	8.2	817
134	A Wholly Degradable, Rechargeable Znâ€"Ti₃C₂ MXene Capacitor with Superior Anti-Self-Discharge Function. ACS Nano, 2019, 13, 8275-8283.	7.3	224
135	Organic quinones towards advanced electrochemical energy storage: recent advances and challenges. Journal of Materials Chemistry A, 2019, 7, 23378-23415.	5.2	248
136	Flexible quasi-solid-state zinc ion batteries enabled by highly conductive carrageenan bio-polymer electrolyte. RSC Advances, 2019, 9, 16313-16319.	1.7	88
137	Recent Advances in Electrode Fabrication for Flexible Energyâ€Storage Devices. Advanced Materials Technologies, 2019, 4, 1900083.	3.0	54
138	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. ACS Nano, 2019, 13, 7270-7280.	7.3	81
139	Activating Câ€Coordinated Iron of Iron Hexacyanoferrate for Zn Hybridâ€Ion Batteries with 10 000â€Cycle Lifespan and Superior Rate Capability. Advanced Materials, 2019, 31, e1901521.	11.1	363
140	Binder-free hierarchical VS₂ electrodes for high-performance aqueous Zn ion batteries towards commercial level mass loading. Journal of Materials Chemistry A, 2019, 7, 16330-16338.	5.2	152
141	Bifunctional Catalysts for Metalâ€Air Batteries. Batteries and Supercaps, 2019, 2, 270-271.	2.4	6
142	A Usage Scenario Independent â€œAir Chargeableâ€•Flexible Zinc Ion Energy Storage Device. Advanced Energy Materials, 2019, 9, 1900509.	10.2	80
143	A mechanically durable and device-level tough Zn-MnO2 battery with high flexibility. Energy Storage Materials, 2019, 23, 636-645.	9.5	159
144	High-Energy and High-Power Nonaqueous Lithium-Ion Capacitors Based on Polypyrrole/Carbon Nanotube Composites as Pseudocapacitive Cathodes. ACS Applied Materials & Interfaces, 2019, 11, 15646-15655.	4.0	43

#	Article	IF	Citations
145	Superâ€Stretchable Zincâ€“Air Batteries Based on an Alkalineâ€Tolerant Dualâ€Network Hydrogel Electrolyte. Advanced Energy Materials, 2019, 9, 1803046.	10.2	287
146	Evaluating Flexibility and Wearability of Flexible Energy Storage Devices. Joule, 2019, 3, 613-619.	11.7	273
147	A flexible solid-state zinc ion hybrid supercapacitor based on co-polymer derived hollow carbon spheres. Journal of Materials Chemistry A, 2019, 7, 7784-7790.	5.2	254
148	Hydrated hybrid vanadium oxide nanowires as the superior cathode for aqueous Zn battery. Materials Today Energy, 2019, 14, 100361.	2.5	67
149	Biomimetic organohydrogel electrolytes for highâ€environmental adaptive energy storage devices. EcoMat, 2019, 1, e12008.	6.8	95
150	Enabling highly efficient, flexible and rechargeable quasi-solid-state zn-air batteries via catalyst engineering and electrolyte functionalization. Energy Storage Materials, 2019, 20, 234-242.	9.5	115
151	Folate-conjugated, mesoporous silica functionalized boron nitride nanospheres for targeted delivery of doxorubicin. Materials Science and Engineering C, 2019, 96, 552-560.	3.8	29
152	Temperature-Dependent Lipid Extraction from Membranes by Boron Nitride Nanosheets. ACS Nano, 2018, 12, 2764-2772.	7.3	44
153	Toward Enhancing Wearability and Fashion of Wearable Supercapacitor with Modified Polyurethane Artificial Leather Electrolyte. Nano-Micro Letters, 2018, 10, 38.	14.4	42
154	Boron Element Nanowires Electrode for Supercapacitors. Advanced Energy Materials, 2018, 8, 1703117.	10.2	81
155	A flexible rechargeable zinc-ion wire-shaped battery with shape memory function. Journal of Materials Chemistry A, 2018, 6, 8549-8557.	5.2	138
156	A Building Brick Principle to Create Transparent Composite Films with Multicolor Emission and Selfâ€Healing Function. Small, 2018, 14, e1800315.	5.2	21
157	Single-Site Active Iron-Based Bifunctional Oxygen Catalyst for a Compressible and Rechargeable Zincâ€“Air Battery. ACS Nano, 2018, 12, 1949-1958.	7.3	336
158	3D Graphene Fibers Grown by Thermal Chemical Vapor Deposition. Advanced Materials, 2018, 30, e1705380.	11.1	116
159	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. Energy and Environmental Science, 2018, 11, 941-951.	15.6	731
160	Highly anisotropic, multichannel wood carbon with optimized heteroatom doping for supercapacitor and oxygen reduction reaction. Carbon, 2018, 130, 532-543.	5.4	164
161	Electrospun Conjugated Polymer/Fullerene Hybrid Fibers: Photoactive Blends, Conductivity through Tunneling-AFM, Light Scattering, and Perspective for Their Use in Bulk-Heterojunction Organic Solar Cells. Journal of Physical Chemistry C, 2018, 122, 3058-3067.	1.5	15
162	Carbonâ€Supported Nickel Selenide Hollow Nanowires as Advanced Anode Materials for Sodiumâ€Ion Batteries. Small, 2018, 14, 1702669.	5.2	87

#	Article	IF	Citations
163	Tunable Freeâ€Standing Ultrathin Porous Nickel Film for High Performance Flexible Nickelâ€“Metal Hydride Batteries. Advanced Energy Materials, 2018, 8, 1702467.	10.2	31
164	Light-permeable, photoluminescent microbatteries embedded in the color filter of a screen. Energy and Environmental Science, 2018, 11, 2414-2422.	15.6	97
165	Hierarchically Bicontinuous Porous Copper as Advanced 3D Skeleton for Stable Lithium Storage. ACS Applied Materials & Interfaces, 2018, 10, 13552-13561.	4.0	95
166	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. ACS Nano, 2018, 12, 3140-3148.	7.3	439
167	Construction of a hierarchical 3D Co/N-carbon electrocatalyst for efficient oxygen reduction and overall water splitting. Journal of Materials Chemistry A, 2018, 6, 489-497.	5.2	111
168	Towards wearable electronic devices: A quasi-solid-state aqueous lithium-ion battery with outstanding stability, flexibility, safety and breathability. Nano Energy, 2018, 44, 164-173.	8.2	228
169	Pseudocapacitive anthraquinone modified with reduced graphene oxide for flexible symmetric all-solid-state supercapacitors. Carbon, 2018, 127, 459-468.	5.4	123
170	Graphene stirrer with designed movements: Targeting on environmental remediation and supercapacitor applications. Green Energy and Environment, 2018, 3, 86-96.	4.7	10
171	A Nanofibrillated Cellulose/Polyacrylamide Electrolyteâ€Based Flexible and Sewable Highâ€Performance Znâ€“MnO₂ Battery with Superior Shear Resistance. Small, 2018, 14, e1803978.	5.2	191
172	Self-healable electroluminescent devices. Light: Science and Applications, 2018, 7, 102.	7.7	71
173	Recent Progress of <scp>MX</scp>eneâ€Based Nanomaterials in Flexible Energy Storage and Electronic Devices. Energy and Environmental Materials, 2018, 1, 183-195.	7.3	135
174	Highly Compressible Cross-Linked Polyacrylamide Hydrogel-Enabled Compressible Znâ€“MnO₂ Battery and a Flexible Batteryâ€“Sensor System. ACS Applied Materials & Interfaces, 2018, 10, 44527-44534.	4.0	105
175	Redoxâ€Active Organic Sodium Anthraquinoneâ€2â€Sulfonate (AQS) Anchored on Reduced Graphene Oxide for Highâ€Performance Supercapacitors. Advanced Energy Materials, 2018, 8, 1802088.	10.2	147
176	Solidâ€State Rechargeable Zn//NiCo and Znâ€“Air Batteries with Ultralong Lifetime and High Capacity: The Role of a Sodium Polyacrylate Hydrogel Electrolyte. Advanced Energy Materials, 2018, 8, 1802288.	10.2	253
177	Hydrogel Electrolytes for Flexible Aqueous Energy Storage Devices. Advanced Functional Materials, 2018, 28, 1804560.	7.8	433
178	Towards high areal capacitance, rate capability, and tailorable supercapacitors: Co₃O₄@polypyrrole coreâ€“shell nanorod bundle array electrodes. Journal of Materials Chemistry A, 2018, 6, 19058-19065.	5.2	110
179	In situ formation of NaTi₂(PO₄)₃ cubes on Ti₃C₂ MXene for dual-mode sodium storage. Journal of Materials Chemistry A, 2018, 6, 18525-18532.	5.2	60
180	Biopolymer-assisted synthesis of 3D interconnected Fe3O4@carbon core@shell as anode for asymmetric lithium ion capacitors. Carbon, 2018, 140, 296-305.	5.4	88

#	Article	IF	Citations
181	Electrospun Nâ€Doped Hierarchical Porous Carbon Nanofiber with Improved Degree of Graphitization for Highâ€Performance Lithium Ion Capacitor. Chemistry - A European Journal, 2018, 24, 10460-10467.	1.7	55
182	Nanostructured Anode Materials for Nonâ€aqueous Lithium Ion Hybrid Capacitors. Energy and Environmental Materials, 2018, 1, 75-87.	7.3	97
183	pH-responsive charge-reversal polymer-functionalized boron nitride nanospheres for intracellular doxorubicin delivery. International Journal of Nanomedicine, 2018, Volume 13, 641-652.	3.3	43
184	Advances in Flexible and Wearable Energyâ€Storage Textiles. Small Methods, 2018, 2, 1800124.	4.6	123
185	Flexible Waterproof Rechargeable Hybrid Zinc Batteries Initiated by Multifunctional Oxygen Vacancies-Rich Cobalt Oxide. ACS Nano, 2018, 12, 8597-8605.	7.3	257
186	A smart safe rechargeable zinc ion battery based on sol-gel transition electrolytes. Science Bulletin, 2018, 63, 1077-1086.	4.3	134
187	Nanoporous CaCO₃ Coatings Enabled Uniform Zn Stripping/Plating for Longâ€Life Zinc Rechargeable Aqueous Batteries. Advanced Energy Materials, 2018, 8, 1801090.	10.2	869
188	Integrating a Triboelectric Nanogenerator and a Zincâ€Ion Battery on a Designed Flexible 3D Spacer Fabric. Small Methods, 2018, 2, 1800150.	4.6	78
189	LaB6 nanowires for supercapacitors. Materials Today Energy, 2018, 10, 28-33.	2.5	25
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. Journal of Materials Chemistry A, 2018, 6, 17057-17066.	5.2	149
191	A Wearable Supercapacitor Engaged with Gold Leaf Gilding Cloth Toward Enhanced Practicability. ACS Applied Materials & Interfaces, 2018, 10, 21297-21305.	4.0	28
192	An Intrinsically Selfâ€Healing NiCo||Zn Rechargeable Battery with a Selfâ€Healable Ferricâ€Ionâ€Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. Angewandte Chemie - International Edition, 2018, 57, 9810-9813.	7.2	171
193	Porous single-crystal NaTi2(PO4)3 via liquid transformation of TiO2 nanosheets for flexible aqueous Na-ion capacitor. Nano Energy, 2018, 50, 623-631.	8.2	110
194	Initiating a mild aqueous electrolyte Co₃O₄/Zn battery with 2.2 V-high voltage and 5000-cycle lifespan by a Co(<scp>iii</scp>) rich-electrode. Energy and Environmental Science, 2018, 11, 2521-2530.	15.6	414
195	An Intrinsically Selfâ€Healing NiCo||Zn Rechargeable Battery with a Selfâ€Healable Ferricâ€Ionâ€Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. Angewandte Chemie, 2018, 130, 9958-9961.	1.6	13
196	Spherical Boron Nitride Supported Goldâ€"Copper Catalysts for the Lowâ€Temperature Selective Oxidation of Ethanol. ChemCatChem, 2017, 9, 1363-1367.	1.8	28
197	A Highly Durable, Transferable, and Substrateâ€Versatile Highâ€Performance Allâ€Polymer Microâ€Supercapacitor with Plugâ€andâ€Play Function. Advanced Materials, 2017, 29, 1605137.	11.1	160
198	Photoluminescent Ti₃C₂ MXene Quantum Dots for Multicolor Cellular Imaging. Advanced Materials, 2017, 29, 1604847.	11.1	692

#	Article	IF	Citations
199	Highly Flexible and Self-Healable Thermal Interface Material Based on Boron Nitride Nanosheets and a Dual Cross-Linked Hydrogel. ACS Applied Materials & Interfaces, 2017, 9, 10078-10084.	4.0	107
200	Recent progresses in high-energy-density all pseudocapacitive-electrode-materials-based asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 9443-9464.	5.2	278
201	Recent progress of fiber-shaped asymmetric supercapacitors. Materials Today Energy, 2017, 5, 1-14.	2.5	80
202	An Intrinsically Stretchable and Compressible Supercapacitor Containing a Polyacrylamide Hydrogel Electrolyte. Angewandte Chemie - International Edition, 2017, 56, 9141-9145.	7.2	458
203	Flexible Dual-Mode Tactile Sensor Derived from Three-Dimensional Porous Carbon Architecture. ACS Applied Materials & Interfaces, 2017, 9, 22685-22693.	4.0	41
204	Topâ€Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. Angewandte Chemie - International Edition, 2017, 56, 9571-9576.	7.2	98
205	Component Matters: Paving the Roadmap toward Enhanced Electrocatalytic Performance of Graphitic C₃N₄-Based Catalysts via Atomic Tuning. ACS Nano, 2017, 11, 6004-6014.	7.3	144
206	Topâ€Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. Angewandte Chemie, 2017, 129, 9699-9704.	1.6	31
207	Texturing in situ: N,S-enriched hierarchically porous carbon as a highly active reversible oxygen electrocatalyst. Energy and Environmental Science, 2017, 10, 742-749.	15.6	451
208	Recent Progress on Flexible and Wearable Supercapacitors. Small, 2017, 13, 1701827.	5.2	365
209	Mn₃O₄nanoparticles on layer-structured Ti₃C₂MXene towards the oxygen reduction reaction and zincâ€“air batteries. Journal of Materials Chemistry A, 2017, 5, 20818-20823.	5.2	226
210	A new strategy to engineer polymer bulk heterojunction solar cells with thick active layers via self-assembly of the tertiary columnar phase. Nanoscale, 2017, 9, 11511-11522.	2.8	9
211	Weavable, Conductive Yarn-Based NiCo//Zn Textile Battery with High Energy Density and Rate Capability. ACS Nano, 2017, 11, 8953-8961.	7.3	310
212	Energy and Optoelectronic Related Nanomaterials and Applications. Small, 2017, 13, 1703395.	5.2	1
213	Folate-conjugated boron nitride nanospheres for targeted delivery of anticancer drug. International Journal of Nanomedicine, 2016, Volume 11, 4573-4582.	3.3	52
214	Highly Integrated Supercapacitorâ€Sensor Systems via Material and Geometry Design. Small, 2016, 12, 3393-3399.	5.2	78
215	Toward enhanced activity of a graphitic carbon nitride-based electrocatalyst in oxygen reduction and hydrogen evolution reactions via atomic sulfur doping. Journal of Materials Chemistry A, 2016, 4, 12205-12211.	5.2	112
216	Capacitance Enhancement in a Semiconductor Nanostructureâ€Based Supercapacitor by Solar Light and a Selfâ€Powered Supercapacitorâ€“Photodetector System. Advanced Functional Materials, 2016, 26, 4481-4490.	7.8	133

#	Article	IF	Citations
217	Incorporation of Platinum and Gold Partially Reduced Graphene Oxide into Polymer Electrolyte Membrane Fuel Cells for Increased Output Power and Carbon Monoxide Tolerance. MRS Advances, 2016, 1, 1477-1486.	0.5	3
218	Nanostructured Polypyrrole as a flexible electrode material of supercapacitor. Nano Energy, 2016, 22, 422-438.	8.2	629
219	Simultaneous optimization of surface chemistry and pore morphology of 3D graphene-sulfur cathode via multi-ion modulation. Journal of Power Sources, 2016, 321, 193-200.	4.0	46
220	Highly Flexible, Freestanding Supercapacitor Electrode with Enhanced Performance Obtained by Hybridizing Polypyrrole Chains with MXene. Advanced Energy Materials, 2016, 6, 1600969.	10.2	580
221	The electromagnetic property and microwave absorption of wormhole-like mesoporous carbons with different surface areas. Journal of Materials Science, 2016, 51, 9723-9731.	1.7	18
222	Enhancement of thermal conductivity in water-based nanofluids employing TiO2/reduced graphene oxide composites. Journal of Materials Science, 2016, 51, 10104-10115.	1.7	33
223	Ultrasmall Fe₂O₃ Nanoparticles Anchored on Threeâ€Dimensional Hierarchical Porous Grapheneâ€like Networks for High Rate Capability Supercapacitors. ChemElectroChem, 2016, 3, 1820-1826.	1.7	15
224	A high performance fiber-shaped PEDOT@MnO₂//C@Fe₃O₄asymmetric supercapacitor for wearable electronics. Journal of Materials Chemistry A, 2016, 4, 14877-14883.	5.2	118
225	Polyurethane/Cotton/Carbon Nanotubes Core-Spun Yarn as High Reliability Stretchable Strain Sensor for Human Motion Detection. ACS Applied Materials & Interfaces, 2016, 8, 24837-24843.	4.0	251
226	Hydrothermal synthesis of blue-fluorescent monolayer BN and BCNO quantum dots for bio-imaging probes. RSC Advances, 2016, 6, 79090-79094.	1.7	66
227	Multifunctional Energy Storage and Conversion Devices. Advanced Materials, 2016, 28, 8344-8364.	11.1	420
228	Fabrication of Boron Nitride Nanosheets by Exfoliation. Chemical Record, 2016, 16, 1204-1215.	2.9	74
229	Facet-Controlling Agents Free Synthesis of Hematite Crystals with High-Index Planes: Excellent Photodegradation Performance and Mechanism Insight. ACS Applied Materials & Interfaces, 2016, 8, 142-151.	4.0	37
230	A shape memory supercapacitor and its application in smart energy storage textiles. Journal of Materials Chemistry A, 2016, 4, 1290-1297.	5.2	134
231	A modularization approach for linear-shaped functional supercapacitors. Journal of Materials Chemistry A, 2016, 4, 4580-4586.	5.2	50
232	Extremely Stable Polypyrrole Achieved via Molecular Ordering for Highly Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 2435-2440.	4.0	99
233	Polyethyleneimine-functionalized boron nitride nanospheres as efficient carriers for enhancing the immunostimulatory effect of CpG oligodeoxynucleotides. International Journal of Nanomedicine, 2015, 10, 5343.	3.3	30
234	Magnetic-Assisted, Self-Healable, Yarn-Based Supercapacitor. ACS Nano, 2015, 9, 6242-6251.	7.3	291

#	Article	IF	Citations
235	A self-healable and highly stretchable supercapacitor based on a dual crosslinked polyelectrolyte. Nature Communications, 2015, 6, 10310.	5.8	634
236	Enhancement on Cycle Performance of Zn Anodes by Activated Carbon Modification for Neutral Rechargeable Zinc Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A1439-A1444.	1.3	164
237	Robust reduced graphene oxide paper fabricated with a household non-stick frying pan: a large-area freestanding flexible substrate for supercapacitors. RSC Advances, 2015, 5, 33981-33989.	1.7	43
238	From Industrially Weavable and Knittable Highly Conductive Yarns to Large Wearable Energy Storage Textiles. ACS Nano, 2015, 9, 4766-4775.	7.3	411
239	Layer-by-Layer Assembly of Multifunctional Porous N-Doped Carbon Nanotube Hybrid Architectures for Flexible Conductors and Beyond. ACS Applied Materials & Interfaces, 2015, 7, 6716-6723.	4.0	21
240	An electrochromic supercapacitor and its hybrid derivatives: quantifiably determining their electrical energy storage by an optical measurement. Journal of Materials Chemistry A, 2015, 3, 21321-21327.	5.2	124
241	Solvent-free fabrication of thermally conductive insulating epoxy composites with boron nitride nanoplatelets as fillers. Nanoscale Research Letters, 2014, 9, 643.	3.1	37
242	Polymer composites of boron nitride nanotubes and nanosheets. Journal of Materials Chemistry C, 2014, 2, 10049-10061.	2.7	153
243	Weak morphology dependent valence band structure of boron nitride. Journal of Applied Physics, 2013, 114, .	1.1	16
244	Three-dimensional strutted graphene grown by substrate-free sugar blowing for high-power-density supercapacitors. Nature Communications, 2013, 4, 2905.	5.8	606
245	Polyhedral Oligosilsesquioxaneâ€Modified Boron Nitride Nanotube Based Epoxy Nanocomposites: An Ideal Dielectric Material with High Thermal Conductivity. Advanced Functional Materials, 2013, 23, 1824-1831.	7.8	529
246	Ultrathin nanoporous Fe3O4â€“carbon nanosheets with enhanced supercapacitor performance. Journal of Materials Chemistry A, 2013, 1, 1952.	5.2	168