

Yang Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

236
papers

14,989
citations

64
h-index

115
g-index

251
ext. papers

18,350
ext. citations

13.3
avg, IF

7
L-index

#	Paper	IF	Citations
236	Graphene Materials for Miniaturized Energy Harvest and Storage Devices. <i>Small Structures</i> , 2022 , 3, 2270094	8.94	0
235	In Situ Fabrication of Lead-Free Cs ₃ Cu ₂ I ₅ Nanostructures Embedded in Poly(Vinylidene Fluoride) Electrospun Fibers for Polarized Emission. <i>ACS Applied Nano Materials</i> , 2022 , 5, 508-516	5.6	3
234	Antiperovskite Electrolytes for Solid-State Batteries.. <i>Chemical Reviews</i> , 2022 ,	68.1	18
233	Ultrafast Shaped Laser Induced Synthesis of MXene Quantum Dots/Graphene for Transparent Supercapacitors.. <i>Advanced Materials</i> , 2022 , e2110013	24	10
232	A Flexible Aqueous Zinc-Iodine Micro-battery with Unprecedented Energy Density.. <i>Advanced Materials</i> , 2022 , e2109450	24	3
231	Electroluminescencedynamic Flexible Device for High Efficient Eradication of Drug-resistant Bacteria.. <i>Advanced Materials</i> , 2022 , e2200334	24	1
230	Size-Dependent Oxidation-Induced Phase Engineering for MOFs Derivatives Via Spatial Confinement Strategy Toward Enhanced Microwave Absorption.. <i>Nano-Micro Letters</i> , 2022 , 14, 102	19.5	9
229	A Self-healing Zinc Ion Battery under -20 °C. <i>Energy Storage Materials</i> , 2021 ,	19.4	6
228	Electrolyte Dynamics Engineering for Flexible Fiber-Shaped Aqueous Zinc-Ion Battery with Ultralong Stability. <i>Nano Letters</i> , 2021 , 21, 9651-9660	11.5	14
227	Fracture and Fatigue of AlO-Graphene Nanolayers. <i>Nano Letters</i> , 2021 , 21, 437-444	11.5	1
226	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zinc Oxide Coatings. <i>Advanced Functional Materials</i> , 2021 , 31, 2010526	15.6	13
225	A seamlessly integrated device of micro-supercapacitor and wireless charging with ultrahigh energy density and capacitance. <i>Nature Communications</i> , 2021 , 12, 2647	17.4	30
224	Redox Enhanced Sodium Metal Batteries by Using Graphene Oxide Encapsulated Mesoporous Carbon Sphere Cathode. <i>Advanced Functional Materials</i> , 2021 , 31, 2101637	15.6	2
223	Lithium-Metal Anodes Working at 60 mA cm ⁻² and 60 mAh cm ⁻² through Nanoscale Lithium-Ion Adsorbing. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17419-17425	16.4	14
222	All-pH-Tolerant In-Plane Heterostructures for Efficient Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2021 ,	16.7	19
221	Lithium-Metal Anodes Working at 60 mA cm ⁻² and 60 mAh cm ⁻² through Nanoscale Lithium-Ion Adsorbing. <i>Angewandte Chemie</i> , 2021 , 133, 17559-17565	3.6	1
220	An Aqueous Anti-Freezing and Heat-Tolerant Symmetric Microsupercapacitor with 2.3V Output Voltage. <i>Advanced Energy Materials</i> , 2021 , 11, 2101523	21.8	10

219	Elongating the cycle life of lithium metal batteries in carbonate electrolyte with gradient solid electrolyte interphase layer. <i>Energy Storage Materials</i> , 2021 , 34, 241-249	19.4	25
218	Insight into Prolonged Cycling Life of 4 V All-Solid-State Polymer Batteries by a High-Voltage Stable Binder. <i>Advanced Energy Materials</i> , 2021 , 11, 2002455	21.8	18
217	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li-O ₂ Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 5885-5890	3.6	8
216	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State Li-O Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5821-5826	16.4	22
215	Injectable fiber batteries for all-region power supply in vivo. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1463-1470	13	7
214	Stretchable supercapacitor at 0 °C. <i>Energy and Environmental Science</i> , 2021 , 14, 3075-3085	35.4	45
213	Atomic/molecular layer deposition for energy storage and conversion. <i>Chemical Society Reviews</i> , 2021 , 50, 3889-3956	58.5	39
212	Regulated lithium plating and stripping by a nano-scale gradient inorganic-organic coating for stable lithium metal anodes. <i>Energy and Environmental Science</i> , 2021 , 14, 4085-4094	35.4	15
211	Polypyrrole-Based Composite Materials for Electromagnetic Wave Absorption. <i>Polymer Reviews</i> , 2021 , 61, 646-687	14	24
210	All-solid-state lithium batteries enabled by sulfide electrolytes: from fundamental research to practical engineering design. <i>Energy and Environmental Science</i> , 2021 , 14, 2577-2619	35.4	49
209	Rational Component and Structure Design of Noble-Metal Composites for Optical and Catalytic Applications. <i>Small Structures</i> , 2021 , 2, 2000138	8.7	12
208	Reviving Anode Protection Layer in Na-O ₂ Batteries: Failure Mechanism and Resolving Strategy. <i>Advanced Energy Materials</i> , 2021 , 11, 2003789	21.8	6
207	Encapsulating Sn(OH) ₄ Nanoparticles in Micropores of Mesocarbon Microbeads: A New Anode Material for High-Performance Lithium Ion Batteries. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000849	6.8	5
206	What Structural Features Make Porous Carbons Work for Redox-Enhanced Electrochemical Capacitors? A Fundamental Investigation. <i>ACS Energy Letters</i> , 2021 , 6, 854-861	20.1	5
205	Durable sodium battery composed of conductive Ti ₃ C ₂ T _x MXene modified gel polymer electrolyte. <i>Solid State Ionics</i> , 2021 , 365, 115655	3.3	5
204	Advanced High-Voltage All-Solid-State Li-Ion Batteries Enabled by a Dual-Halogen Solid Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2100836	21.8	17
203	Grain Boundary Design of Solid Electrolyte Actualizing Stable All-Solid-State Sodium Batteries. <i>Small</i> , 2021 , 17, e2103819	11	4
202	Robust self-gated-carriers enabling highly sensitive wearable temperature sensors. <i>Applied Physics Reviews</i> , 2021 , 8, 031416	17.3	8

201	PEO based polymer in plastic crystal electrolytes for room temperature high-voltage lithium metal batteries. <i>Nano Energy</i> , 2021 , 88, 106205	17.1	20
200	An Air-Stable and Li-Metal-Compatible Glass-Ceramic Electrolyte enabling High-Performance All-Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006577	24	36
199	Composite Nanostructure Construction on the Grain Surface of Li-Rich Layered Oxides. <i>Advanced Materials</i> , 2020 , 32, e1906070	24	38
198	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000030	24	81
197	Li-CO ₂ Batteries Efficiently Working at Ultra-Low Temperatures. <i>Advanced Functional Materials</i> , 2020 , 30, 2001619	15.6	20
196	Enabling ultrafast ionic conductivity in Br-based lithium argyrodite electrolytes for solid-state batteries with different anodes. <i>Energy Storage Materials</i> , 2020 , 30, 238-249	19.4	21
195	Dynamics of the Garnet/Li Interface for Dendrite-Free Solid-State Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 2156-2164	20.1	41
194	Interface-assisted in-situ growth of halide electrolytes eliminating interfacial challenges of all-inorganic solid-state batteries. <i>Nano Energy</i> , 2020 , 76, 105015	17.1	36
193	Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for High-Performance Metallic Lithium Anode. <i>Advanced Energy Materials</i> , 2020 , 10, 2001139	21.8	21
192	Unveiling the critical role of interfacial ionic conductivity in all-solid-state lithium batteries. <i>Nano Energy</i> , 2020 , 72, 104686	17.1	27
191	Site-Occupation-Tuned Superionic LiScClHalide Solid Electrolytes for All-Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7012-7022	16.4	97
190	3D Printing of Free-Standing O_2 Breathable Air Electrodes for High-Capacity and Long-Life Na O_2 Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 3018-3027	9.6	20
189	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1035-1043	20.1	73
188	Temperature-Dependent Chemical and Physical Microstructure of Li Metal Anodes Revealed through Synchrotron-Based Imaging Techniques. <i>Advanced Materials</i> , 2020 , 32, e2002550	24	27
187	A directly swallowable and ingestible micro-supercapacitor. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4055-4061	13	18
186	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of 10 mA cm^{-2} /20 mAh cm^{-2} Realized by Selective Nucleation within Microchannel Walls. <i>Advanced Energy Materials</i> , 2020 , 10, 1903753	21.8	44
185	A Versatile Sn-Substituted Argyrodite Sulfide Electrolyte for All-Solid-State Li Metal Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903422	21.8	81
184	Phosphorene Degradation: Visualization and Quantification of Nanoscale Phase Evolution by Scanning Transmission X-ray Microscopy. <i>Chemistry of Materials</i> , 2020 , 32, 1272-1280	9.6	8

183	Hybrid Energy Storage Device: Combination of Zinc-Ion Supercapacitor and Zinc-Air Battery in Mild Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7239-7248	9.5	43
182	Suppressed dendrite formation realized by selective Li deposition in all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2020 , 27, 198-204	19.4	24
181	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001118	15.6	25
180	Regulation of 2D Graphene Materials for Electrocatalysis. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2271-2284	17.1	8
179	Tunable Graphene Systems for Water Desalination. <i>ChemNanoMat</i> , 2020 , 6, 1028-1048	3.5	16
178	Na Metal Batteries: Interface Design from Liquid to Solid Systems. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 565-565	0	
177	Dual-functional interfaces for highly stable Ni-rich layered cathodes in sulfide all-solid-state batteries. <i>Energy Storage Materials</i> , 2020 , 27, 117-123	19.4	59
176	Engineering the conductive carbon/PEO interface to stabilize solid polymer electrolytes for all-solid-state high voltage LiCoO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2769-2776	13	38
175	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state LiSe batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 278-286	13	22
174	Variable-Energy Hard X-ray Photoemission Spectroscopy: A Nondestructive Tool to Analyze the Cathode-Solid-State Electrolyte Interface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2293-2298	9.5	7
173	Superionic conductivity in lithium argyrodite solid-state electrolyte by controlled Cl-doping. <i>Nano Energy</i> , 2020 , 69, 104396	17.1	40
172	Compact Assembly and Programmable Integration of Supercapacitors. <i>Advanced Materials</i> , 2020 , 32, e1907005	24	21
171	2D Graphene-Based Macroscopic Assemblies for Micro-Supercapacitors. <i>ChemSusChem</i> , 2020 , 13, 1255-1274	12.4	14
170	Highly-stable P2Na _{0.67} MnO ₂ electrode enabled by lattice tailoring and surface engineering. <i>Energy Storage Materials</i> , 2020 , 26, 503-512	19.4	43
169	Large-Scale Spinning Approach to Engineering Knittable Hydrogel Fiber for Soft Robots. <i>ACS Nano</i> , 2020 , 14, 14929-14938	16.7	21
168	Insights into interfacial effect and local lithium-ion transport in polycrystalline cathodes of solid-state batteries. <i>Nature Communications</i> , 2020 , 11, 5700	17.4	40
167	Stabilizing and understanding the interface between nickel-rich cathode and PEO-based electrolyte by lithium niobium oxide coating for high-performance all-solid-state batteries. <i>Nano Energy</i> , 2020 , 78, 105107	17.1	38
166	Tuning ionic conductivity and electrode compatibility of Li ₃ YBr ₆ for high-performance all solid-state Li batteries. <i>Nano Energy</i> , 2020 , 77, 105097	17.1	26

165	Tuning bifunctional interface for advanced sulfide-based all-solid-state batteries. <i>Energy Storage Materials</i> , 2020 , 33, 139-146	19.4	17
164	Fast Charging All Solid-State Lithium Batteries Enabled by Rational Design of Dual Vertically-Aligned Electrodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2005357	15.6	13
163	Gradually Crosslinking Carbon Nanotube Array in Mimicking the Beak of Giant Squid for Compression-Sensing Supercapacitor. <i>Advanced Functional Materials</i> , 2020 , 30, 1902971	15.6	9
162	Making Fiber-Shaped Ni//Bi Battery Simultaneously with High Energy Density, Power Density, and Safety. <i>Advanced Functional Materials</i> , 2020 , 30, 1905971	15.6	24
161	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 17210-17216	3.6	31
160	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17054-17060	16.4	71
159	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. <i>ACS Catalysis</i> , 2019 , 9, 9350-9358	13.1	61
158	Natural SEI-Inspired Dual-Protective Layers via Atomic/Molecular Layer Deposition for Long-Life Metallic Lithium Anode. <i>Matter</i> , 2019 , 1, 1215-1231	12.7	72
157	Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2480-2488	20.1	85
156	In situ formation of highly controllable and stable Na ₃ PS ₄ as a protective layer for Na metal anode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4119-4125	13	29
155	Radio frequency heating of metallic and semiconducting single-walled carbon nanotubes. <i>Nanoscale</i> , 2019 , 11, 9617-9625	7.7	16
154	Promoting the Transformation of Li S to Li ₂ S: Significantly Increasing Utilization of Active Materials for High-Sulfur-Loading Li-S Batteries. <i>Advanced Materials</i> , 2019 , 31, e1901220	24	186
153	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019 , 9, 5365-5374	13.1	21
152	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900261	12.8	60
151	Rational design of porous structures via molecular layer deposition as an effective stabilizer for enhancing Pt ORR performance. <i>Nano Energy</i> , 2019 , 60, 111-118	17.1	41
150	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zirconium Coatings for Long Life Next-Generation Battery Systems. <i>Angewandte Chemie</i> , 2019 , 131, 15944-15949	3.6	9
149	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zirconium Coatings for Long Life Next-Generation Battery Systems. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15797-15802	16.4	64
148	Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage cathodes. <i>Nano Energy</i> , 2019 , 65, 103988	17.1	25

147	An Air-Stable and Dendrite-Free Li Anode for Highly Stable All-Solid-State Sulfide-Based Li Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1902125	21.8	72
146	Self-healing electrostatic shield enabling uniform lithium deposition in all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019 , 22, 194-199	19.4	34
145	Tunable-Deformed Graphene Layers for Actuation. <i>Frontiers in Chemistry</i> , 2019 , 7, 725	5	3
144	O ₂ /O ₂ Crossover- and Dendrite-Free Hybrid Solid-State NaO ₂ Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 9024-9031	9.6	14
143	Engineering a Nanonet-Reinforced polymer electrolyte for long-life LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24947-24952	13	13
142	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. <i>Small</i> , 2019 , 15, e1904740	11	69
141	In Situ Intercalation of Bismuth into 3D Reduced Graphene Oxide Scaffolds for High Capacity and Long Cycle-Life Energy Storage. <i>Small</i> , 2019 , 15, e1905903	11	6
140	Nanomechanical elasticity and fracture studies of lithium phosphate (LPO) and lithium tantalate (LTO) solid-state electrolytes. <i>Nanoscale</i> , 2019 , 11, 18730-18738	7.7	11
139	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2437-2442	16.4	81
138	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 2459-2464	3.6	16
137	A Novel Organic "Polyurea" Thin Film for Ultralong-Life Lithium-Metal Anodes via Molecular-Layer Deposition. <i>Advanced Materials</i> , 2019 , 31, e1806541	24	129
136	Molecular Layer Deposition for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2018 , 3, 899-914	20.1	96
135	High Capacity, Dendrite-Free Growth, and Minimum Volume Change Na Metal Anode. <i>Small</i> , 2018 , 14, e1703717	11	75
134	Robust Metallic Lithium Anode Protection by the Molecular-Layer-Deposition Technique. <i>Small Methods</i> , 2018 , 2, 1700417	12.8	65
133	A Type of 1 nm Molybdenum Carbide Confined within Carbon Nanomesh as Highly Efficient Bifunctional Electrocatalyst. <i>Advanced Functional Materials</i> , 2018 , 28, 1705967	15.6	58
132	Sticky-note supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3355-3360	13	22
131	Aligning the binder effect on sodium-air batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1473-1484	13	18
130	Boosting the performance of lithium batteries with solid-liquid hybrid electrolytes: Interfacial properties and effects of liquid electrolytes. <i>Nano Energy</i> , 2018 , 48, 35-43	17.1	92

129	Recent developments and insights into the understanding of Na metal anodes for Na-metal batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 2673-2695	35.4	257
128	On the Cycling Performance of Na-O ₂ Cells: Revealing the Impact of the Superoxide Crossover toward the Metallic Na Electrode. <i>Advanced Functional Materials</i> , 2018 , 28, 1801904	15.6	28
127	Dendrite-free and minimum volume change Li metal anode achieved by three-dimensional artificial interlayers. <i>Energy Storage Materials</i> , 2018 , 15, 415-421	19.4	31
126	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31240-31248	9.5	125
125	Stabilizing interface between Li ₁₀ SnP ₂ S ₁₂ and Li metal by molecular layer deposition. <i>Nano Energy</i> , 2018 , 53, 168-174	17.1	84
124	Nanoscale Homogeneous Energetic Copper Azides@Porous Carbon Hybrid with Reduced Sensitivity and High Ignition Ability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22545-22551	9.5	17
123	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1654-1661	9.5	63
122	Gel Polymer Electrolytes for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1702184.8	14.8	435
121	Carbon paper interlayers: A universal and effective approach for highly stable Li metal anodes. <i>Nano Energy</i> , 2018 , 43, 368-375	17.1	103
120	A capacity recoverable zinc-ion micro-supercapacitor. <i>Energy and Environmental Science</i> , 2018 , 11, 3367-3374	33.4	185
119	Multi-functional nanowall arrays with unrestricted Li ⁺ transport channels and an integrated conductive network for high-areal-capacity LiB batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22958-22965	13	25
118	Stabilization of all-solid-state LiB batteries with a polymer/ceramic sandwich electrolyte by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23712-23719	13	51
117	Addressing Interfacial Issues in Liquid-Based and Solid-State Batteries by Atomic and Molecular Layer Deposition. <i>Joule</i> , 2018 , 2, 2583-2604	27.8	138
116	Ultralong-Life Quasi-Solid-State Li-O ₂ Batteries Enabled by Coupling Advanced Air Electrode Design with Li Metal Anode Protection. <i>Small Methods</i> , 2018 , 3, 1800437	12.8	14
115	Selective atomic layer deposition of RuO _x catalysts on shape-controlled Pd nanocrystals with significantly enhanced hydrogen evolution activity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24397-24406	13	22
114	In Situ Li PS Solid-State Electrolyte Protection Layers for Superior Long-Life and High-Rate Lithium-Metal Anodes. <i>Advanced Materials</i> , 2018 , 30, e1804684	24	102
113	Towards high performance Li metal batteries: Nanoscale surface modification of 3D metal hosts for pre-stored Li metal anodes. <i>Nano Energy</i> , 2018 , 54, 375-382	17.1	80
112	Flexible Metal/Air Batteries 2018 , 367-396		2

111	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. <i>Nature Communications</i> , 2018 , 9, 4509	17.4	123
110	Origin of achieving the enhanced activity and stability of Pt electrocatalysts with strong metal-support interactions via atomic layer deposition. <i>Nano Energy</i> , 2018 , 53, 716-725	17.1	31
109	Ultrahigh-Capacity and Long-Life Lithium-Metal Batteries Enabled by Engineering Carbon Nanofiber-Stabilized Graphene Aerogel Film Host. <i>Small</i> , 2018 , 14, e1803310	11	36
108	Versatile origami micro-supercapacitors array as a wind energy harvester. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19750-19756	13	25
107	Controlling the Geometries of Si Nanowires through Tunable Nanosphere Lithography. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7368-7375	9.5	13
106	Superior performance of ordered macroporous TiNb ₂ O ₇ anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. <i>Nano Energy</i> , 2017 , 34, 15-25	17.1	264
105	Decoupling atomic-layer-deposition ultrafine RuO ₂ for high-efficiency and ultralong-life Li-O ₂ batteries. <i>Nano Energy</i> , 2017 , 34, 399-407	17.1	51
104	Mesh-on-Mesh Graphitic-C ₃ N ₄ @Graphene for Highly Efficient Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2017 , 27, 1606352	15.6	115
103	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. <i>Advanced Materials</i> , 2017 , 29, 1606663	24	221
102	Unusual Assembly and Conversion of Graphene Quantum Dots into Crystalline Graphite Nanocapsules. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 1272-1276	4.5	2
101	Strongly Bound Sodium Dodecyl Sulfate Surrounding Single-Wall Carbon Nanotubes. <i>Langmuir</i> , 2017 , 33, 5006-5014	4	23
100	New insight into atomic-scale engineering of electrode surface for long-life and safe high voltage lithium ion cathodes. <i>Nano Energy</i> , 2017 , 38, 19-27	17.1	39
99	Interconnected Molybdenum Carbide-Based Nanoribbons for Highly Efficient and Ultrastable Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24608-24615	9.5	30
98	Atomic Layer Deposited Non-Noble Metal Oxide Catalyst for Sodium Air Batteries: Tuning the Morphologies and Compositions of Discharge Product. <i>Advanced Functional Materials</i> , 2017 , 27, 1606662	15.6	30
97	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. <i>Advanced Materials</i> , 2017 , 29, 1703764	24	91
96	Superaligned Carbon Nanotubes Guide Oriented Cell Growth and Promote Electrophysiological Homogeneity for Synthetic Cardiac Tissues. <i>Advanced Materials</i> , 2017 , 29, 1702713	24	53
95	Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31786-31793	9.5	43
94	Boiling and quenching heat transfer advancement by nanoscale surface modification. <i>Scientific Reports</i> , 2017 , 7, 6117	4.9	28

93	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. <i>Chem</i> , 2017 , 3, 348-362	16.2	135
92	Inorganic-Organic Coating via Molecular Layer Deposition Enables Long Life Sodium Metal Anode. <i>Nano Letters</i> , 2017 , 17, 5653-5659	11.5	183
91	Tissue Engineering: Superaligned Carbon Nanotubes Guide Oriented Cell Growth and Promote Electrophysiological Homogeneity for Synthetic Cardiac Tissues (Adv. Mater. 44/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
90	A facile route to prepare reflective counter electrode for enhanced dye-sensitised solar cell efficiency. <i>International Journal of Nano and Biomaterials</i> , 2016 , 6, 205	0.2	
89	Vapor-Activated Power Generation on Conductive Polymer. <i>Advanced Functional Materials</i> , 2016 , 26, 8784-8792	15.6	64
88	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 4524-31	24	173
87	Magnetic graphene@PANI@porous TiO ₂ ternary composites for high-performance electromagnetic wave absorption. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6362-6370	7.1	279
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82	Spontaneous, Straightforward Fabrication of Partially Reduced Graphene Oxide-Polypyrrole Composite Films for Versatile Actuators. <i>ACS Nano</i> , 2016 , 10, 4735-41	16.7	101
81	Construction of CuS Nanoflakes Vertically Aligned on Magnetically Decorated Graphene and Their Enhanced Microwave Absorption Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5536-46	9.5	366
80	Controlled synthesis of hollow SiNiIn nanoarchitected electrode for advanced lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 23260-23264	3.7	5
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78	Metal organic frameworks for energy storage and conversion. <i>Energy Storage Materials</i> , 2016 , 2, 35-62	19.4	386
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