

Quan-Hong Yang

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.

292
papers

25,132
citations

85
h-index

151
g-index

326
ext. papers

30,126
ext. citations

13.5
avg, IF

7.39
L-index

#	Paper	IF	Citations
292	Self-assembled Graphene Architectures for Electrochemical Energy Storage 2022 , 277-303		
291	Revisiting the Roles of Natural Graphite in Ongoing Lithium-ion Batteries.. <i>Advanced Materials</i> , 2022 , e2106704	24	10
290	Design Rules of a Sulfur Redox Electrocatalyst for Lithium-sulfur Batteries.. <i>Advanced Materials</i> , 2022 , e2110279	24	16
289	Catalytic Conversion of Polysulfides in LiS Batteries. <i>Modern Aspects of Electrochemistry</i> , 2022 , 165-223		
288	Inside-out dual-doping effects on tubular catalysts: Structural and chemical variation for advanced oxygen reduction performance. <i>Nano Research</i> , 2022 , 15, 361	10	1
287	Roles of Metal Ions in MXene Synthesis, Processing and Applications: A Perspective.. <i>Advanced Science</i> , 2022 , e2200296	13.6	7
286	A high-voltage anode-free rechargeable sodium battery.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	6
285	Stress-assisted design of stiffened graphene electrode structure toward compact energy storage. <i>Journal of Energy Chemistry</i> , 2022 , 71, 478-487	12	0
284	Nano-spring confined in a shrinkable graphene cage towards self-adaptable high-capacity anodes. <i>Energy Storage Materials</i> , 2022 , 50, 554-562	19.4	0
283	Cooling the Earth: a polymer-based selective thermal emitter for all-day radiative cooling. <i>Science China Chemistry</i> , 2021 , 64, 339-340	7.9	0
282	A template oriented one-dimensional Schiff-base polymer: towards flexible nitrogen-enriched carbonaceous electrodes with ultrahigh electrochemical capacity. <i>Nanoscale</i> , 2021 , 13, 19210-19217	7.7	1
281	Demystifying the catalysis in lithium-sulfur batteries: Characterization methods and techniques. <i>SusMat</i> , 2021 , 1, 51-65		28
280	A Review of Compact Carbon Design for Supercapacitors with High Volumetric Performance. <i>Small</i> , 2021 , 17, e2007548	11	13
279	Solution-based Preparation of High Sulfur Content Sulfur/Graphene Cathode Material for Li-S Battery. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 323-327	2.2	3
278	From Micropores to Ultra-micropores inside Hard Carbon: Toward Enhanced Capacity in Room-/Low-Temperature Sodium-Ion Storage. <i>Nano-Micro Letters</i> , 2021 , 13, 98	19.5	11
277	Boosting Catalytic Activity by Seeding Nanocatalysts onto Interlayers to Inhibit Polysulfide Shuttling in LiS Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101980	15.6	42
276	Nitrate Additives Coordinated with Crown Ether Stabilize Lithium Metal Anodes in Carbonate Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2102128	15.6	22

275	A new approach to produce polystyrene monoliths by gelation and capillary shrinkage. <i>Science China Materials</i> , 2021 , 64, 2272-2279	7.1	
274	An Oxygenophilic Atomic Dispersed Fe ₂ N ₂ C Catalyst for Lean-Oxygen Seawater Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100683	21.8	9
273	Cobalt-Doping of Molybdenum Disulfide for Enhanced Catalytic Polysulfide Conversion in Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021 , 15, 7491-7499	16.7	39
272	Lamellar MXene Composite Aerogels with Sandwiched Carbon Nanotubes Enable Stable Lithium-Sulfur Batteries with a High Sulfur Loading. <i>Advanced Functional Materials</i> , 2021 , 31, 2100793	15.6	27
271	Coordinated Adsorption and Catalytic Conversion of Polysulfides Enabled by Perovskite Bimetallic Hydroxide Nanocages for Lithium-Sulfur Batteries. <i>Small</i> , 2021 , 17, e2101538	11	5
270	Crowning Metal Ions by Supramolecularization as a General Remedy toward a Dendrite-Free Alkali-Metal Battery. <i>Advanced Materials</i> , 2021 , 33, e2101745	24	10
269	Matching electrode lengths enables the practical use of asymmetric fiber supercapacitors with a high energy density. <i>Nano Energy</i> , 2021 , 80, 105523	17.1	14
268	pH-Dependent Morphology Control of Cellulose Nanofiber/Graphene Oxide Cryogels. <i>Small</i> , 2021 , 17, e2005564	11	5
267	Suppressing Al dendrite growth towards a long-life Al-metal battery. <i>Energy Storage Materials</i> , 2021 , 34, 194-202	19.4	22
266	A multifunctional artificial protective layer for producing an ultra-stable lithium metal anode in a commercial carbonate electrolyte. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7667-7674	13	12
265	1000 Wh L lithium-ion batteries enabled by crosslink-shrunk tough carbon encapsulated silicon microparticle anodes. <i>National Science Review</i> , 2021 , 8, nwab012	10.8	16
264	What Is the Right Carbon for Practical Anode in Alkali Metal Ion Batteries?. <i>Small Science</i> , 2021 , 1, 2000063		17
263	Reassembly of MXene Hydrogels into Flexible Films towards Compact and Ultrafast Supercapacitors. <i>Advanced Functional Materials</i> , 2021 , 31, 2102874	15.6	16
262	Selective Catalysis Remedies Polysulfide Shuttling in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021 , 33, e2101006	24	55
261	Porous MXene monoliths with locally laminated structure for enhanced pseudo-capacitance and fast sodium-ion storage. <i>Nano Energy</i> , 2021 , 86, 106091	17.1	16
260	Compact energy storage enabled by graphenes: Challenges, strategies and progress. <i>Materials Today</i> , 2021 ,	21.8	12
259	Reversible electrochemical oxidation of sulfur in ionic liquid for high-voltage Al-S batteries. <i>Nature Communications</i> , 2021 , 12, 5714	17.4	13
258	Enhanced chemical trapping and catalytic conversion of polysulfides by diatomite/MXene hybrid interlayer for stable Li-S batteries. <i>Journal of Energy Chemistry</i> , 2021 , 62, 590-598	12	13

257	High-performance lithium-sulfur batteries enabled by regulating LiS deposition. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 21385-21398	3.6	3
256	A Protective Layer for Lithium Metal Anode: Why and How.. <i>Small Methods</i> , 2021 , 5, e2001035	12.8	19
255	Ultrathin and High-Modulus LiBO Layer Highly Elevates the Interfacial Dynamics and Stability of Lithium Anode under Wide Temperature Range. <i>Small</i> , 2021 , e2106427	11	4
254	Realizing High Volumetric Lithium Storage by Compact and Mechanically Stable Anode Designs. <i>ACS Energy Letters</i> , 2020 , 5, 1986-1995	20.1	38
253	A Corrosion-Resistant and Dendrite-Free Zinc Metal Anode in Aqueous Systems. <i>Small</i> , 2020 , 16, e2001736	13.6	144
252	Flowable sulfur template induced fully interconnected pore structures in graphene artefacts towards high volumetric potassium storage. <i>Nano Energy</i> , 2020 , 72, 104729	17.1	27
251	An alternative means of advanced energy storage by electrochemical modification. <i>JPhys Energy</i> , 2020 , 2, 021006	4.9	
250	Bidirectional Catalysts for Liquid-Solid Redox Conversion in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000315	24	137
249	Optimized Catalytic WS ₂ /WO ₃ Heterostructure Design for Accelerated Polysulfide Conversion in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000091	21.8	109
248	The Assembly of MXenes from 2D to 3D. <i>Advanced Science</i> , 2020 , 7, 1903077	13.6	119
247	Progress and Perspective of Ceramic/Polymer Composite Solid Electrolytes for Lithium Batteries. <i>Advanced Science</i> , 2020 , 7, 1903088	13.6	179
246	A bio-derived sheet-like porous carbon with thin-layer pore walls for ultrahigh-power supercapacitors. <i>Nano Energy</i> , 2020 , 70, 104531	17.1	91
245	Layered MXene Protected Lithium Metal Anode as an Efficient Polysulfide Blocker for Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 892-899	5.6	11
244	Vertical Graphenes Grown on a Flexible Graphite Paper as an All-Carbon Current Collector towards Stable Li Deposition. <i>Research</i> , 2020 , 2020, 7163948	7.8	7
243	A thick yet dense silicon anode with enhanced interface stability in lithium storage evidenced by in situ TEM observations. <i>Science Bulletin</i> , 2020 , 65, 1563-1569	10.6	13
242	MXenes induce epitaxial growth of size-controlled noble nanometals: A case study for surface enhanced Raman scattering (SERS). <i>Journal of Materials Science and Technology</i> , 2020 , 40, 119-127	9.1	35
241	Interlayer engineering of TiCT MXenes towards high capacitance supercapacitors. <i>Nanoscale</i> , 2020 , 12, 763-771	7.7	51
240	Dense organic molecules/graphene network anodes with superior volumetric and areal performance for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 461-469	13	15

239	Constructing a High-Strength Solid Electrolyte Layer by In Vivo Alloying with Aluminum for an Ultrahigh-Rate Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 1907343	15.6	53
238	Capillary shrinkage of graphene oxide hydrogels. <i>Science China Materials</i> , 2020 , 63, 1870-1877	7.1	18
237	An organic nickel salt-based electrolyte additive boosts homogeneous catalysis for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020 , 33, 290-297	19.4	27
236	Single-Atom Electrocatalysts for Lithium Sulfur Batteries: Progress, Opportunities, and Challenges 2020 , 2, 1450-1463		44
235	High-performance graphene/disodium terephthalate electrodes with ether electrolyte for exceptional cooperative sodiation/desodiation. <i>Nano Energy</i> , 2020 , 77, 105203	17.1	10
234	A Functionalized Carbon Surface for High-Performance Sodium-Ion Storage. <i>Small</i> , 2020 , 16, e1902603	11	28
233	Graphene-Templated Growth of WS ₂ Nanoclusters for Catalytic Conversion of Polysulfides in Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4923-4930	6.1	11
232	A Lightweight 3D Cu Nanowire Network with Phosphidation Gradient as Current Collector for High-Density Nucleation and Stable Deposition of Lithium. <i>Advanced Materials</i> , 2019 , 31, e1904991	24	64
231	Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. <i>Nature Communications</i> , 2019 , 10, 4244	17.4	128
230	Abundant grain boundaries activate highly efficient lithium ion transportation in high rate Li ₄ Ti ₅ O ₁₂ compact microspheres. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1168-1176	13	18
229	Realizing stable lithium deposition by in situ grown Cu ₂ S nanowires inside commercial Cu foam for lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 727-732	13	47
228	Electrode thickness matching for achieving high-volumetric-performance lithium-ion capacitors. <i>Energy Storage Materials</i> , 2019 , 18, 133-138	19.4	31
227	Graphene aerogel derived by purification-free graphite oxide for high performance supercapacitor electrodes. <i>Carbon</i> , 2019 , 146, 147-154	10.4	23
226	An air-stable and waterproof lithium metal anode enabled by wax composite packaging. <i>Science Bulletin</i> , 2019 , 64, 910-917	10.6	36
225	Capillary Encapsulation of Metallic Potassium in Aligned Carbon Nanotubes for Use as Stable Potassium Metal Anodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1901427	21.8	67
224	Porous carbons derived from carbonization of tissue papers for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 11250-11256	2.1	5
223	3D Macroscopic Architectures from Self-Assembled MXene Hydrogels. <i>Advanced Functional Materials</i> , 2019 , 29, 1903960	15.6	207
222	Packing Activated Carbons into Dense Graphene Network by Capillarity for High Volumetric Performance Supercapacitors. <i>Advanced Science</i> , 2019 , 6, 1802355	13.6	46

221	Review of Recent Development of In Situ/Operando Characterization Techniques for Lithium Battery Research. <i>Advanced Materials</i> , 2019 , 31, e1806620	24	251
220	Interlayers for lithium-based batteries. <i>Energy Storage Materials</i> , 2019 , 23, 112-136	19.4	22
219	Building Carbon-Based Versatile Scaffolds on the Electrode Surface to Boost Capacitive Performance for Fiber Pseudocapacitors. <i>Small</i> , 2019 , 15, e1900721	11	21
218	Direct assembly of micron-size porous graphene spheres with a high density as supercapacitor materials. <i>Carbon</i> , 2019 , 149, 492-498	10.4	14
217	Dense yet highly ion permeable graphene electrodes obtained by capillary-drying of a holey graphene oxide assembly. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12691-12697	13	5
216	Reviving catalytic activity of nitrides by the doping of the inert surface layer to promote polysulfide conversion in lithium-sulfur batteries. <i>Nano Energy</i> , 2019 , 60, 305-311	17.1	77
215	Liquid electrolyte immobilized in compact polymer matrix for stable sodium metal anodes. <i>Energy Storage Materials</i> , 2019 , 23, 610-616	19.4	21
214	Capture and Catalytic Conversion of Polysulfides by In Situ Built TiO ₂ -MXene Heterostructures for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1900219	21.8	291
213	Electrode Design from "Internal" to "External" for High Stability Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14142-14149	9.5	25
212	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. <i>Advanced Functional Materials</i> , 2019 , 29, 1900311	15.6	13
211	Holey graphenes as the conductive additives for LiFePO ₄ batteries with an excellent rate performance. <i>Carbon</i> , 2019 , 149, 257-262	10.4	29
210	An ion-conducting SnS ₂ /SnS ₂ hybrid coating for commercial activated carbons enabling their use as high performance anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10761-10768	13	18
209	Necklace-like MoC sulfiphilic sites embedded in interconnected carbon networks for LIB batteries with high sulfur loading. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11298-11304	13	39
208	A lightweight carbon nanofiber-based 3D structured matrix with high nitrogen-doping level for lithium metal anodes. <i>Science China Materials</i> , 2019 , 62, 87-94	7.1	41
207	LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ as both a trapper and accelerator of polysulfides for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019 , 17, 111-117	19.4	45
206	Activated carbon fibers with manganese dioxide coating for flexible fiber supercapacitors with high capacitive performance. <i>Journal of Energy Chemistry</i> , 2019 , 31, 95-100	12	30
205	Wasp nest-imitated assembly of elastic rGO/p-Ti ₃ C ₂ T _x MXene-cellulose nanofibers for high-performance sodium-ion batteries. <i>Carbon</i> , 2019 , 153, 625-633	10.4	22
204	Supercapacitors: Packing Activated Carbons into Dense Graphene Network by Capillarity for High Volumetric Performance Supercapacitors (Adv. Sci. 14/2019). <i>Advanced Science</i> , 2019 , 6, 1970086	13.6	6

203	Controllable Unzipping of Carbon Nanotubes as Advanced Pt Catalyst Supports for Oxygen Reduction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5446-5455	6.1	8
202	Fast Gelation of Ti C T MXene Initiated by Metal Ions. <i>Advanced Materials</i> , 2019 , 31, e1902432	24	193
201	Enhanced Sulfur Redox and Polysulfide Regulation via Porous VN-Modified Separator for Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5687-5694	9.5	80
200	A Directional Strain Sensor Based on Anisotropic Microhoneycomb Cellulose Nanofiber-Carbon Nanotube Hybrid Aerogels Prepared by Unidirectional Freeze Drying. <i>Small</i> , 2019 , 15, e1805363	11	46
199	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. <i>Nature Communications</i> , 2019 , 10, 725	17.4	156
198	L-Cysteine-Modified Acacia Gum as a Multifunctional Binder for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47956-47962	9.5	7
197	All-Solid-State Batteries: Low Resistance Integrated All-Solid-State Battery Achieved by Li7La3Zr2O12 Nanowire Upgrading Polyethylene Oxide (PEO) Composite Electrolyte and PEO Cathode Binder (Adv. Funct. Mater. 1/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970006	15.6	9
196	Realizing Ultralow Concentration Gelation of Graphene Oxide with Artificial Interfaces. <i>Advanced Materials</i> , 2019 , 31, e1805075	24	8
195	Deactivating Defects in Graphenes with Al2O3 Nanoclusters to Produce Long-Life and High-Rate Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803078	21.8	46
194	Fast three-dimensional assembly of MoS2 inspired by the gelation of graphene oxide. <i>Science China Materials</i> , 2019 , 62, 745-750	7.1	7
193	Two-dimensional materials for lithium/sodium-ion capacitors. <i>Materials Today Energy</i> , 2019 , 11, 30-45	7	63
192	Graphitic Carbon Nitride Induced Micro-Electric Field for Dendrite-Free Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1803186	21.8	106
191	Enhanced Roles of Carbon Architectures in High-Performance Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019 , 11, 5	19.5	40
190	Low Resistance Integrated All-Solid-State Battery Achieved by Li7La3Zr2O12 Nanowire Upgrading Polyethylene Oxide (PEO) Composite Electrolyte and PEO Cathode Binder. <i>Advanced Functional Materials</i> , 2019 , 29, 1805301	15.6	240
189	Oxygen-enriched carbon nanotubes as a bifunctional catalyst promote the oxygen reduction/evolution reactions in Li-O2 batteries. <i>Carbon</i> , 2019 , 141, 561-567	10.4	36
188	Promoted conversion of polysulfides by MoO2 in laid ordered mesoporous carbons towards high performance lithium-sulfur batteries. <i>Chinese Chemical Letters</i> , 2019 , 30, 521-524	8.1	20
187	Hierarchical MoS2/Carbon microspheres as long-life and high-rate anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5668-5677	13	100
186	Catalyzing polysulfide conversion by g-C3N4 in a graphene network for long-life lithium-sulfur batteries. <i>Nano Research</i> , 2018 , 11, 3480-3489	10	77

185	A Nacre-Like Carbon Nanotube Sheet for High Performance Li-Polysulfide Batteries with High Sulfur Loading. <i>Advanced Science</i> , 2018 , 5, 1800384	13.6	30
184	Vertically Aligned Lithiophilic CuO Nanosheets on a Cu Collector to Stabilize Lithium Deposition for Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703404	21.8	198
183	Sodium Ion Capacitors: The Interplay of Oxygen Functional Groups and Folded Texture in Densified Graphene Electrodes for Compact Sodium-Ion Capacitors (Adv. Energy Mater. 11/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870050	21.8	
182	Sulfur-functionalized three-dimensional graphene monoliths as high-performance anodes for ultrafast sodium-ion storage. <i>Chemical Communications</i> , 2018 , 54, 4317-4320	5.8	16
181	A Li-ion sulfur full cell with ambient resistant Al-Li alloy anode. <i>Energy Storage Materials</i> , 2018 , 15, 209-217	7.4	28
180	Compact 3D Copper with Uniform Porous Structure Derived by Electrochemical Dealloying as Dendrite-Free Lithium Metal Anode Current Collector. <i>Advanced Energy Materials</i> , 2018 , 8, 1800266	21.8	226
179	Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. <i>Nature Communications</i> , 2018 , 9, 402	17.4	186
178	The Interplay of Oxygen Functional Groups and Folded Texture in Densified Graphene Electrodes for Compact Sodium-Ion Capacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1702395	21.8	55
177	WS ₂ nanoplates embedded in graphitic carbon nanotubes with excellent electrochemical performance for lithium and sodium storage. <i>Science China Materials</i> , 2018 , 61, 671-678	7.1	24
176	Graphene-Directed Formation of a Nitrogen-Doped Porous Carbon Sheet with High Catalytic Performance for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13508-13514	3.8	15
175	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. <i>Materials Horizons</i> , 2018 , 5, 275-284	14.4	87
174	Extremely safe, high-rate and ultralong-life zinc-ion hybrid supercapacitors. <i>Energy Storage Materials</i> , 2018 , 13, 96-102	19.4	326
173	Engineering Graphenes from the Nano- to the Macroscale for Electrochemical Energy Storage. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 139-168	29.3	42
172	Progress and Perspective of Solid-State Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707570	15.6	138
171	Dense Graphene Monolith for High Volumetric Energy Density LiS Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703438	21.8	78
170	Catalytic Effects in Lithium-Sulfur Batteries: Promoted Sulfur Transformation and Reduced Shuttle Effect. <i>Advanced Science</i> , 2018 , 5, 1700270	13.6	471
169	Advanced Materials for Capturing Particulate Matter: Progress and Perspectives. <i>Small Methods</i> , 2018 , 2, 1800012	12.8	52
168	Easy fabrication of flexible and multilayer nanocarbon-based cathodes with a high unreal sulfur loading by electrostatic spraying for lithium-sulfur batteries. <i>Carbon</i> , 2018 , 138, 18-25	10.4	18

167	Room-temperature liquid metal-based anodes for high-energy potassium-based electrochemical devices. <i>Chemical Communications</i> , 2018 , 54, 8032-8035	5.8	35
166	Towards a reliable Li-metal-free LiNO ₃ -free Li-ion polysulphide full cell via parallel interface engineering. <i>Energy and Environmental Science</i> , 2018 , 11, 2509-2520	35.4	21
165	Functional Carbons Remedy the Shuttling of Polysulfides in Lithium Sulfur Batteries: Confining, Trapping, Blocking, and Breaking up. <i>Advanced Functional Materials</i> , 2018 , 28, 1800508	15.6	117
164	Two-Dimensional Nanochannel Arrays Based on Flexible Montmorillonite Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44915-44923	9.5	22
163	Solid-State Electrolytes: Progress and Perspective of Solid-State Lithium Sulfur Batteries (Adv. Funct. Mater. 38/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870272	15.6	9
162	A facile and processable integration strategy towards Schiff-base polymer-derived carbonaceous materials with high lithium storage performance. <i>Nanoscale</i> , 2018 , 10, 10351-10356	7.7	12
161	A Hollow Spherical Carbon Derived from the Spray Drying of Corncob Lignin for High-Rate-Performance Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 503-506	4.5	21
160	High-Density Microporous LiTiO Microbars with Superior Rate Performance for Lithium-Ion Batteries. <i>Advanced Science</i> , 2017 , 4, 1600311	13.6	52
159	Dendrite-Free, High-Rate, Long-Life Lithium Metal Batteries with a 3D Cross-Linked Network Polymer Electrolyte. <i>Advanced Materials</i> , 2017 , 29, 1604460	24	461
158	Biomass Carbonization: Biomass Organs Control the Porosity of Their Pyrolyzed Carbon (Adv. Funct. Mater. 3/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	4
157	Propelling polysulfides transformation for high-rate and long-life lithium sulfur batteries. <i>Nano Energy</i> , 2017 , 33, 306-312	17.1	277
156	Structure controllable carbon matrix derived from benzene-constructed porous organic polymers for high-performance Li-S batteries. <i>Carbon</i> , 2017 , 116, 633-639	10.4	16
155	Multi hierarchical construction-induced superior capacitive performances of flexible electrodes for wearable energy storage. <i>Nano Energy</i> , 2017 , 34, 242-248	17.1	101
154	A review of gassing behavior in Li ₄ Ti ₅ O ₁₂ -based lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6368-6381	13	125
153	A Planar Graphene-Based Film Supercapacitor Formed by Liquid-Air Interfacial Assembly. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601127	4.6	13
152	A Three-Layer All-In-One Flexible Graphene Film Used as an Integrated Supercapacitor. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700004	4.6	21
151	Dual electronic-ionic conductivity of pseudo-capacitive filler enables high volumetric capacitance from dense graphene micro-particles. <i>Nano Energy</i> , 2017 , 36, 349-355	17.1	32
150	Opening Two-Dimensional Materials for Energy Conversion and Storage: A Concept. <i>Advanced Energy Materials</i> , 2017 , 7, 1602684	21.8	206

149	A Dual-Function Na SO Template Directed Formation of Cathode Materials with a High Content of Sulfur Nanodots for Lithium-Sulfur Batteries. <i>Small</i> , 2017 , 13, 1700358	11	20
148	Dense graphene monolith oxygen cathodes for ultrahigh volumetric energy densities. <i>Energy Storage Materials</i> , 2017 , 9, 134-139	19.4	17
147	From Trash to Treasure: Turning Air Pollutants into Materials for Energy Storage. <i>ChemNanoMat</i> , 2017 , 3, 392-400	3.5	4
146	Biomass Organs Control the Porosity of Their Pyrolyzed Carbon. <i>Advanced Functional Materials</i> , 2017 , 27, 1604687	15.6	113
145	Reduced-sized monolayer carbon nitride nanosheets for highly improved photoresponse for cell imaging and photocatalysis. <i>Science China Materials</i> , 2017 , 60, 109-118	7.1	46
144	A Composite Polymeric Carbon Nitride with In Situ Formed Isotype Heterojunctions for Highly Improved Photocatalysis under Visible Light. <i>Small</i> , 2017 , 13, 1603182	11	41
143	Achieving superb sodium storage performance on carbon anodes through an ether-derived solid electrolyte interphase. <i>Energy and Environmental Science</i> , 2017 , 10, 370-376	35.4	297
142	A one-step hard-templating method for the preparation of a hierarchical microporous-mesoporous carbon for lithium-sulfur batteries. <i>New Carbon Materials</i> , 2017 , 32, 289-296	4.4	15
141	H ₂ S + SO ₂ produces water-dispersed sulfur nanoparticles for lithium-sulfur batteries. <i>Nano Energy</i> , 2017 , 41, 665-673	17.1	8
140	Stacking up layers of polyaniline/carbon nanotube networks inside papers as highly flexible electrodes with large areal capacitance and superior rate capability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19934-19942	13	70
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