

# Wei Lv

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7599752/wei-lv-publications-by-year.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

217  
papers

16,321  
citations

65  
h-index

123  
g-index

235  
ext. papers

19,555  
ext. citations

12.5  
avg, IF

6.95  
L-index

#	Paper	IF	Citations
217	Revisiting the Roles of Natural Graphite in Ongoing Lithium-ion Batteries.. <i>Advanced Materials</i> , <b>2022</b> , e2106704	24	10
216	Diglyme-based electrolytes boosting high-rate and stable sodium-ion storage for three-dimensional VS4/Reduced graphene oxide hybrid anodes. <i>Journal of Power Sources</i> , <b>2022</b> , 526, 231098	8.9	2
215	A Gradient Topology Host for a Dendrite-free Lithium Metal Anode. <i>Nano Energy</i> , <b>2022</b> , 94, 106937	17.1	7
214	High-density three-dimensional graphene cathode with a tailored pore structure for high volumetric capacity zinc-ion storage. <i>Carbon</i> , <b>2022</b> , 186, 624-631	10.4	1
213	Deeply Cyclable and Ultrahigh-Rate Lithium Metal Anodes Enabled by Coaxial Nanochamber Heterojunction on Carbon Nanofibers. <i>Advanced Science</i> , <b>2021</b> , 8, e2101940	13.6	2
212	Electron and Ion Co-Conductive Catalyst Achieving Instant Transformation of Lithium Polysulfide towards Li S. <i>Advanced Materials</i> , <b>2021</b> , e2105362	24	7
211	Regulating the Li <sub>2</sub> S Deposition by Grain Boundaries in Metal Nitrides for Stable Lithium-Sulfur Batteries. <i>Nano Energy</i> , <b>2021</b> , 106669	17.1	8
210	Reconfiguring confined magnetic colloids with tunable fluid transport behavior. <i>National Science Review</i> , <b>2021</b> , 8, nwaa301	10.8	12
209	A Passionfruit-Like Carbon-Confined Cu <sub>2</sub> ZnSnS <sub>4</sub> Anode for Ultralong-Life Sodium Storage. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100082	21.8	19
208	Nitrate Additives Coordinated with Crown Ether Stabilize Lithium Metal Anodes in Carbonate Electrolyte. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102128	15.6	22
207	Cobalt-Doping of Molybdenum Disulfide for Enhanced Catalytic Polysulfide Conversion in Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2021</b> , 15, 7491-7499	16.7	39
206	Lamellar MXene Composite Aerogels with Sandwiched Carbon Nanotubes Enable Stable Lithium-Sulfur Batteries with a High Sulfur Loading. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100793	15.6	27
205	Regulating the Stable Lithium and Polysulfide Deposition in Batteries by a Gold Nanoparticle Modified Vertical Graphene Host. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100044	1.6	1
204	Confined growth of Fe <sub>2</sub> O <sub>3</sub> nanoparticles by holey graphene for enhanced sodium-ion storage. <i>Carbon</i> , <b>2021</b> , 176, 31-38	10.4	4
203	Coordinated Adsorption and Catalytic Conversion of Polysulfides Enabled by Perovskite Bimetallic Hydroxide Nanocages for Lithium-Sulfur Batteries. <i>Small</i> , <b>2021</b> , 17, e2101538	11	5
202	Rich Heterointerfaces Enabling Rapid Polysulfides Conversion and Regulated LiS Deposition for High-Performance Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2021</b> ,	16.7	23
201	Crowning Metal Ions by Supramolecularization as a General Remedy toward a Dendrite-Free Alkali-Metal Battery. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101745	24	10

200	pH-Dependent Morphology Control of Cellulose Nanofiber/Graphene Oxide Cryogels. <i>Small</i> , <b>2021</b> , 17, e2005564	11	5
199	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> , <b>2021</b> , 9, 7667-7674	13	12
198	1000 Wh L lithium-ion batteries enabled by crosslink-shrunk tough carbon encapsulated silicon microparticle anodes. <i>National Science Review</i> , <b>2021</b> , 8, nwab012	10.8	16
197	Photocatalytic degradation of ranitidine and reduction of nitrosamine dimethylamine formation potential over MXene-TiC/MoS under visible light irradiation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125424	12.8	26
196	Selective Catalysis Remedies Polysulfide Shuttling in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101006	24	55
195	Constructing a Reinforced and Gradient Solid Electrolyte Interphase on Si Nanoparticles by In-Situ Thiol-Ene Click Reaction for Long Cycling Lithium-Ion Batteries. <i>Small</i> , <b>2021</b> , 17, e2102316	11	4
194	Engineering d-p Orbital Hybridization in Single-Atom Metal-Embedded Three-Dimensional Electrodes for Li-S Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2105947	24	41
193	A (110) Facet-Dominated Vanadium Dioxide Enabling Bidirectional Electrocatalysis for Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2021</b> , 15, 16878-16886	16.7	4
192	High-performance lithium-sulfur batteries enabled by regulating LiS deposition. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 21385-21398	3.6	3
191	A Protective Layer for Lithium Metal Anode: Why and How.. <i>Small Methods</i> , <b>2021</b> , 5, e2001035	12.8	19
190	A Highly Efficient Ion and Electron Conductive Interlayer To Achieve Low Self-Discharge of Lithium-Sulfur Batteries.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	4
189	An interlayer composed of a porous carbon sheet embedded with TiO nanoparticles for stable and high rate lithium-sulfur batteries. <i>Nanoscale</i> , <b>2020</b> , 12, 12308-12316	7.7	15
188	Building Magnetoresponse Composite Elastomers for Bionic Locomotion Applications. <i>Journal of Bionic Engineering</i> , <b>2020</b> , 17, 405-420	2.7	14
187	Bidirectional Catalysts for Liquid-Solid Redox Conversion in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000315	24	137
186	Optimized Catalytic WS <sub>2</sub> /WO <sub>3</sub> Heterostructure Design for Accelerated Polysulfide Conversion in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000091	21.8	109
185	Progress and Perspective of Ceramic/Polymer Composite Solid Electrolytes for Lithium Batteries. <i>Advanced Science</i> , <b>2020</b> , 7, 1903088	13.6	179
184	Metallic Liquid Gating Membranes. <i>ACS Nano</i> , <b>2020</b> , 14, 2465-2474	16.7	17
183	A MoS <sub>2</sub> /Carbon hybrid anode for high-performance Li-ion batteries at low temperature. <i>Nano Energy</i> , <b>2020</b> , 70, 104550	17.1	52

182	Layered MXene Protected Lithium Metal Anode as an Efficient Polysulfide Blocker for Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 892-899	5.6	11
181	Vertical Graphenes Grown on a Flexible Graphite Paper as an All-Carbon Current Collector towards Stable Li Deposition. <i>Research</i> , <b>2020</b> , 2020, 7163948	7.8	7
180	Efficient polysulfide blocker from conductive niobium nitride@graphene for Li-S batteries. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 45, 135-141	12	36
179	ZnS spheres wrapped by an ultrathin wrinkled carbon film as a multifunctional interlayer for long-life LiB batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 231-241	13	45
178	Dense organic molecules/graphene network anodes with superior volumetric and areal performance for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 461-469	13	15
177	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> , <b>2020</b> , 30, 1907343	15.6	53
176	Unsaturated Single Atoms on Monolayer Transition Metal Dichalcogenides for Ultrafast Hydrogen Evolution. <i>ACS Nano</i> , <b>2020</b> , 14, 767-776	16.7	69
175	Capillary shrinkage of graphene oxide hydrogels. <i>Science China Materials</i> , <b>2020</b> , 63, 1870-1877	7.1	18
174	In-situ topochemical nitridation derivative MoO <sub>2</sub> /Mo <sub>2</sub> N binary nanobelts as multifunctional interlayer for fast-kinetic Li-Sulfur batteries. <i>Nano Energy</i> , <b>2020</b> , 68, 104356	17.1	64
173	Intercalation-Induced Conversion Reactions Give High-Capacity Potassium Storage. <i>ACS Nano</i> , <b>2020</b> , 14, 14026-14035	16.7	17
172	An organic nickel salt-based electrolyte additive boosts homogeneous catalysis for lithium-sulfur batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 33, 290-297	19.4	27
171	Status and prospects of porous graphene networks for lithium-sulfur batteries. <i>Materials Horizons</i> , <b>2020</b> , 7, 2487-2518	14.4	33
170	High-performance graphene/disodium terephthalate electrodes with ether electrolyte for exceptional cooperative sodiation/desodiation. <i>Nano Energy</i> , <b>2020</b> , 77, 105203	17.1	10
169	Highly stretchable and reliable graphene oxide-reinforced liquid gating membranes for tunable gas/liquid transport. <i>Microsystems and Nanoengineering</i> , <b>2020</b> , 6, 43	7.7	17
168	A Functionalized Carbon Surface for High-Performance Sodium-Ion Storage. <i>Small</i> , <b>2020</b> , 16, e1902603	11	28
167	Graphene-Templated Growth of WS <sub>2</sub> Nanoclusters for Catalytic Conversion of Polysulfides in Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4923-4930	6.1	11
166	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> , <b>2019</b> , 31, e1904991	24	64
165	Theoretical Investigation of the Electrochemical Performance of Transition Metal Nitrides for Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 25025-25030	3.8	18

164	Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. <i>Nature Communications</i> , <b>2019</b> , 10, 4244	17.4	128
163	Abundant grain boundaries activate highly efficient lithium ion transportation in high rate Li4Ti5O12 compact microspheres. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1168-1176	13	18
162	Realizing stable lithium deposition by in situ grown Cu2S nanowires inside commercial Cu foam for lithium metal anodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 727-732	13	47
161	Multifunctional binder designs for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 39, 88-100	12	49
160	An air-stable and waterproof lithium metal anode enabled by wax composite packaging. <i>Science Bulletin</i> , <b>2019</b> , 64, 910-917	10.6	36
159	Porous carbons derived from carbonization of tissue papers for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 11250-11256	2.1	5
158	Synthesizing multilayer graphene from amorphous activated carbon via ammonia-assisted hydrothermal method. <i>Carbon</i> , <b>2019</b> , 152, 24-32	10.4	17
157	Packing Activated Carbons into Dense Graphene Network by Capillarity for High Volumetric Performance Supercapacitors. <i>Advanced Science</i> , <b>2019</b> , 6, 1802355	13.6	46
156	Interlayers for lithium-based batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 23, 112-136	19.4	22
155	Direct assembly of micron-size porous graphene spheres with a high density as supercapacitor materials. <i>Carbon</i> , <b>2019</b> , 149, 492-498	10.4	14
154	Dense yet highly ion permeable graphene electrodes obtained by capillary-drying of a holey graphene oxide assembly. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12691-12697	13	5
153	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> , <b>2019</b> , 60, 305-311	17.1	77
152	Capture and Catalytic Conversion of Polysulfides by In Situ Built TiO2-MXene Heterostructures for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900219	21.8	291
151	Electrode Design from "Internal" to "External" for High Stability Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14142-14149	9.5	25
150	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900311	15.6	13
149	Holey graphenes as the conductive additives for LiFePO4 batteries with an excellent rate performance. <i>Carbon</i> , <b>2019</b> , 149, 257-262	10.4	29
148	Seeding lithium seeds towards uniform lithium deposition for stable lithium metal anodes. <i>Nano Energy</i> , <b>2019</b> , 61, 47-53	17.1	48
147	An ion-conducting SnS/BnS2 hybrid coating for commercial activated carbons enabling their use as high performance anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10761-10768	13	18

146	Necklace-like MoC sulphiphilic sites embedded in interconnected carbon networks for LiS batteries with high sulfur loading. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11298-11304	13	39
145	A lightweight carbon nanofiber-based 3D structured matrix with high nitrogen-doping level for lithium metal anodes. <i>Science China Materials</i> , <b>2019</b> , 62, 87-94	7.1	41
144	LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> as both a trapper and accelerator of polysulfides for lithium-sulfur batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 17, 111-117	19.4	45
143	Precise carbon structure control by salt template for high performance sodium-ion storage. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 31, 101-106	12	34
142	Wasp nest-imitated assembly of elastic rGO/p-Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-cellulose nanofibers for high-performance sodium-ion batteries. <i>Carbon</i> , <b>2019</b> , 153, 625-633	10.4	22
141	Supercapacitors: Packing Activated Carbons into Dense Graphene Network by Capillarity for High Volumetric Performance Supercapacitors (Adv. Sci. 14/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970086	13.6	6
140	Interconnected Ultrasmall VO and LiTiO Particles Construct Robust Interfaces for Long-Cycling Anodes of Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29993-30000	9.5	12
139	Fast Gelation of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Initiated by Metal Ions. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902432	24	193
138	Elevated polysulfide regulation by an ultralight all-CVD-built ReS <sub>2</sub> @N-Doped graphene heterostructure interlayer for lithium-sulfur batteries. <i>Nano Energy</i> , <b>2019</b> , 66, 104190	17.1	57
137	A Directional Strain Sensor Based on Anisotropic Microhoneycomb Cellulose Nanofiber-Carbon Nanotube Hybrid Aerogels Prepared by Unidirectional Freeze Drying. <i>Small</i> , <b>2019</b> , 15, e1805363	11	46
136	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. <i>Nature Communications</i> , <b>2019</b> , 10, 725	17.4	156
135	L-Cysteine-Modified Acacia Gum as a Multifunctional Binder for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47956-47962	9.5	7
134	All-Solid-State Batteries: Low Resistance Integrated All-Solid-State Battery Achieved by Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Nanowire Upgrading Polyethylene Oxide (PEO) Composite Electrolyte and PEO Cathode Binder (Adv. Funct. Mater. 1/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970006	15.6	9
133	Realizing Ultralow Concentration Gelation of Graphene Oxide with Artificial Interfaces. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805075	24	8
132	Deactivating Defects in Graphenes with Al <sub>2</sub> O <sub>3</sub> Nanoclusters to Produce Long-Life and High-Rate Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803078	21.8	46
131	Fast three-dimensional assembly of MoS <sub>2</sub> inspired by the gelation of graphene oxide. <i>Science China Materials</i> , <b>2019</b> , 62, 745-750	7.1	7
130	Graphitic Carbon Nitride Induced Micro-Electric Field for Dendrite-Free Lithium Metal Anodes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803186	21.8	106
129	Low Resistance Integrated All-Solid-State Battery Achieved by Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Nanowire Upgrading Polyethylene Oxide (PEO) Composite Electrolyte and PEO Cathode Binder. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805301	15.6	240



128	Oxygen-enriched carbon nanotubes as a bifunctional catalyst promote the oxygen reduction/evolution reactions in Li-O <sub>2</sub> batteries. <i>Carbon</i> , <b>2019</b> , 141, 561-567	10.4	36
127	Promoted conversion of polysulfides by MoO <sub>2</sub> inlaid ordered mesoporous carbons towards high performance lithium-sulfur batteries. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 521-524	8.1	20
126	Catalyzing polysulfide conversion by g-C <sub>3</sub> N <sub>4</sub> in a graphene network for long-life lithium-sulfur batteries. <i>Nano Research</i> , <b>2018</b> , 11, 3480-3489	10	77
125	A Nacre-Like Carbon Nanotube Sheet for High Performance Li-Polysulfide Batteries with High Sulfur Loading. <i>Advanced Science</i> , <b>2018</b> , 5, 1800384	13.6	30
124	Vertically Aligned Lithiophilic CuO Nanosheets on a Cu Collector to Stabilize Lithium Deposition for Lithium Metal Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703404	21.8	198
123	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> , <b>2018</b> , 8, 1870050	21.8	
122	Sulfur-functionalized three-dimensional graphene monoliths as high-performance anodes for ultrafast sodium-ion storage. <i>Chemical Communications</i> , <b>2018</b> , 54, 4317-4320	5.8	16
121	A Li-ion sulfur full cell with ambient resistant Al-Li alloy anode. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 209-217	7.4	28
120	Compact 3D Copper with Uniform Porous Structure Derived by Electrochemical Dealloying as Dendrite-Free Lithium Metal Anode Current Collector. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800266	21.8	226
119	Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. <i>Nature Communications</i> , <b>2018</b> , 9, 402	17.4	186
118	The Interplay of Oxygen Functional Groups and Folded Texture in Densified Graphene Electrodes for Compact Sodium-Ion Capacitors. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702395	21.8	55
117	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> , <b>2018</b> , 122, 13508-13514	3.8	15
116	Engineering Graphenes from the Nano- to the Macroscale for Electrochemical Energy Storage. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 139-168	29.3	42
115	Catalytic Effects in Lithium-Sulfur Batteries: Promoted Sulfur Transformation and Reduced Shuttle Effect. <i>Advanced Science</i> , <b>2018</b> , 5, 1700270	13.6	471
114	High-Level Heteroatom Doped Two-Dimensional Carbon Architectures for Highly Efficient Lithium-Ion Storage. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 97	5	6
113	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> , <b>2018</b> , 138, 18-25	10.4	18
112	Spherical Li Deposited inside 3D Cu Skeleton as Anode with Ultrastable Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 20244-20249	9.5	76
111	Room-temperature liquid metal-based anodes for high-energy potassium-based electrochemical devices. <i>Chemical Communications</i> , <b>2018</b> , 54, 8032-8035	5.8	35

110	Towards a reliable Li-metal-free LiNO <sub>3</sub> -free Li-ion polysulphide full cell via parallel interface engineering. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2509-2520	35.4	21
109	Functional Carbons Remedy the Shuttling of Polysulfides in Lithium-Sulfur Batteries: Confining, Trapping, Blocking, and Breaking up. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800508	15.6	117
108	A Robust Integrated SnO <sub>x</sub> /Carbon Composite Anode for Sodium-Ion Batteries. <i>ChemistrySelect</i> , <b>2018</b> , 3, 10869-10874	1.8	6
107	A Hollow Spherical Carbon Derived from the Spray Drying of Corncob Lignin for High-Rate-Performance Supercapacitors. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 503-506	4.5	21
106	Propelling polysulfides transformation for high-rate and long-life lithium-sulfur batteries. <i>Nano Energy</i> , <b>2017</b> , 33, 306-312	17.1	277
105	A Three-Layer All-In-One Flexible Graphene Film Used as an Integrated Supercapacitor. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700004	4.6	21
104	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> , <b>2017</b> , 13, 1700358	11	20
103	Theoretical Investigation of the Intercalation Chemistry of Lithium/Sodium Ions in Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 13599-13605	3.8	62
102	Dense graphene monolith oxygen cathodes for ultrahigh volumetric energy densities. <i>Energy Storage Materials</i> , <b>2017</b> , 9, 134-139	19.4	17
101	Achieving superb sodium storage performance on carbon anodes through an ether-derived solid electrolyte interphase. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 370-376	35.4	297
100	A one-step hard-templating method for the preparation of a hierarchical microporous-mesoporous carbon for lithium-sulfur batteries. <i>New Carbon Materials</i> , <b>2017</b> , 32, 289-296	4.4	15
99	H <sub>2</sub> S + SO <sub>2</sub> produces water-dispersed sulfur nanoparticles for lithium-sulfur batteries. <i>Nano Energy</i> , <b>2017</b> , 41, 665-673	17.1	8
98	A Reduced Graphene Oxide/Disodium Terephthalate Hybrid as a High-Performance Anode for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16586-16592	4.8	10
97	Carbon enables the practical use of lithium metal in a battery. <i>Carbon</i> , <b>2017</b> , 123, 744-755	10.4	83
96	A high-performance lithium ion oxygen battery consisting of Li <sub>2</sub> O <sub>2</sub> cathode and lithiated aluminum anode with nafion membrane for reduced O <sub>2</sub> crossover. <i>Nano Energy</i> , <b>2017</b> , 40, 258-263	17.1	31
95	A Stable Cross-Linked Binder Network for SnO <sub>2</sub> Anode with Enhanced Sodium-Ion Storage Performance. <i>ChemistrySelect</i> , <b>2017</b> , 2, 11365-11369	1.8	9
94	Disassembly-Reassembly Approach to RuO <sub>4</sub> /Graphene Composites for Ultrahigh Volumetric Capacitance Supercapacitor. <i>Small</i> , <b>2017</b> , 13, 1701026	11	85
93	Twinborn TiO <sub>2</sub> /N heterostructures enabling smooth trapping/diffusion/conversion of polysulfides towards ultralong life lithium-sulfur batteries. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1694-1703	35.4	647



92	An in-plane heterostructure of graphene and titanium carbide for efficient polysulfide confinement. <i>Nano Energy</i> , <b>2017</b> , 39, 291-296	17.1	117
91	Li-ion and Na-ion transportation and storage properties in various sized TiO <sub>2</sub> spheres with hierarchical pores and high tap density. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4359-4367	13	64
90	Twin-functional graphene oxide: compacting with Fe <sub>2</sub> O <sub>3</sub> into a high volumetric capacity anode for lithium ion battery. <i>Energy Storage Materials</i> , <b>2017</b> , 6, 98-103	19.4	56
89	Research Advances of Carbon-based Anode Materials for Sodium-Ion Batteries. <i>Acta Chimica Sinica</i> , <b>2017</b> , 75, 163	3.3	7
88	Graphene-based materials for electrochemical energy storage devices: Opportunities and challenges. <i>Energy Storage Materials</i> , <b>2016</b> , 2, 107-138	19.4	314
87	Enhanced Antiglioblastoma Efficacy of Neovasculature and Glioma Cells Dual Targeted Nanoparticles. <i>Molecular Pharmaceutics</i> , <b>2016</b> , 13, 3506-3517	5.6	20
86	Dense coating of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> and graphene mixture on the separator to produce long cycle life of lithium-sulfur battery. <i>Nano Energy</i> , <b>2016</b> , 30, 1-8	17.1	164
85	Chemical Dealloying Derived 3D Porous Current Collector for Li Metal Anodes. <i>Advanced Materials</i> , <b>2016</b> , 28, 6932-9	24	586
84	Micron-sized Spherical Si/C Hybrids Assembled via Water/Oil System for High-Performance Lithium Ion Battery. <i>Electrochimica Acta</i> , <b>2016</b> , 211, 982-988	6.7	23
83	Graphene Emerges as a Versatile Template for Materials Preparation. <i>Small</i> , <b>2016</b> , 12, 2674-88	11	46
82	Evolution of the effect of sulfur confinement in graphene-based porous carbons for use in Li-S batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 4447-51	7.7	59
81	Commercial carbon molecular sieves as a high performance anode for sodium-ion batteries. <i>Energy Storage Materials</i> , <b>2016</b> , 3, 18-23	19.4	124
80	Prevalence and Occupational and Environmental Risk Factors of Self-Reported Asthma: Evidence from a Cross-Sectional Survey in Seven Chinese Cities. <i>International Journal of Environmental Research and Public Health</i> , <b>2016</b> , 13,	4.6	9
79	A Carbon-Sulfur Hybrid with Pomegranate-like Structure for Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 1343-7	4.5	16
78	Porous graphene oxide-based carbon artefact with high capacity for methylene blue adsorption. <i>Adsorption</i> , <b>2016</b> , 22, 1043-1050	2.6	15
77	Transcriptome Analysis Reveals Distinct Gene Expression Profiles in Eosinophilic and Noneosinophilic Chronic Rhinosinusitis with Nasal Polyps. <i>Scientific Reports</i> , <b>2016</b> , 6, 26604	4.9	50
76	Occupational and environmental risk factors for chronic rhinosinusitis in China: a multicentre cross-sectional study. <i>Respiratory Research</i> , <b>2016</b> , 17, 54	7.3	16
75	How a very trace amount of graphene additive works for constructing an efficient conductive network in LiCoO <sub>2</sub> -based lithium-ion batteries. <i>Carbon</i> , <b>2016</b> , 103, 356-362	10.4	64

74	Dual targeted nanocarrier for brain ischemic stroke treatment. <i>Journal of Controlled Release</i> , <b>2016</b> , 233, 64-71	11.7	84
73	Spatial Degrees of Freedom for MIMO Interference Channel with Local Channel State Information at Transmitters. <i>Wireless Personal Communications</i> , <b>2016</b> , 89, 639-662	1.9	2
72	Dual-functional hard template directed one-step formation of a hierarchical porous carbon-carbon nanotube hybrid for lithium-sulfur batteries. <i>Chemical Communications</i> , <b>2016</b> , 52, 12143-12146	5.8	51
71	A new Suzuki synthesis of triphenylethylenes that inhibit aromatase and bind to estrogen receptors and $\beta$ - <i>Bioorganic and Medicinal Chemistry</i> , <b>2016</b> , 24, 5400-5409	3.4	13
70	Electrostatic-spraying an ultrathin, multifunctional and compact coating onto a cathode for a long-life and high-rate lithium-sulfur battery. <i>Nano Energy</i> , <b>2016</b> , 30, 138-145	17.1	65
69	Sulfur confined in nitrogen-doped microporous carbon used in a carbonate-based electrolyte for long-life, safe lithium-sulfur batteries. <i>Carbon</i> , <b>2016</b> , 109, 1-6	10.4	98
68	A sheet-like porous carbon for high-rate supercapacitors produced by the carbonization of an eggplant. <i>Carbon</i> , <b>2015</b> , 92, 11-14	10.4	182
67	Electrode thickness control: Precondition for quite different functions of graphene conductive additives in LiFePO <sub>4</sub> electrode. <i>Carbon</i> , <b>2015</b> , 92, 311-317	10.4	34
66	One-pot self-assembly of graphene/carbon nanotube/sulfur hybrid with three dimensionally interconnected structure for lithium-sulfur batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 295, 182-189	8.9	115
65	N and S co-doped porous carbon spheres prepared using L-cysteine as a dual functional agent for high-performance lithium-sulfur batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 17720-3	5.8	109
64	A carbon sandwich electrode with graphene filling coated by N-doped porous carbon layers for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20218-20224	13	76
63	Multilayered silicon embedded porous carbon/graphene hybrid film as a high performance anode. <i>Carbon</i> , <b>2015</b> , 84, 434-443	10.4	124
62	Facile synthesis of ZnO nanorods grown on graphene sheets and its enhanced photocatalytic efficiency. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2015</b> , 90, 550-558	3.5	42
61	Carbon coated porous tin peroxide/carbon composite electrode for lithium-ion batteries with excellent electrochemical properties. <i>Carbon</i> , <b>2015</b> , 81, 739-747	10.4	23
60	Carbon: Two-Dimensional Porous Carbon: Synthesis and Ion-Transport Properties (Adv. Mater. 36/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 5254-5254	24	4
59	Two-Dimensional Porous Carbon: Synthesis and Ion-Transport Properties. <i>Advanced Materials</i> , <b>2015</b> , 27, 5388-95	24	263
58	Concrete-inspired construction of a silicon/carbon hybrid electrode for high performance lithium ion battery. <i>Carbon</i> , <b>2015</b> , 93, 59-67	10.4	71
57	Ultrafast high-volumetric sodium storage of folded-graphene electrodes through surface-induced redox reactions. <i>Energy Storage Materials</i> , <b>2015</b> , 1, 112-118	19.4	69

56	Towards superior volumetric performance: design and preparation of novel carbon materials for energy storage. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1390-1403	35.4	304
55	A hybrid of holey graphene and Mn <sub>3</sub> O <sub>4</sub> and its oxygen reduction reaction performance. <i>Chemical Communications</i> , <b>2015</b> , 51, 3911-4	5.8	46
54	Self-Assembled 3D Graphene Monolith from Solution. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 658-664	6.4	131
53	A high-density graphene-sulfur assembly: a promising cathode for compact Li-S batteries. <i>Nanoscale</i> , <b>2015</b> , 7, 5592-7	7.7	83
52	Unusual high oxygen reduction performance in all-carbon electrocatalysts. <i>Scientific Reports</i> , <b>2014</b> , 4, 6289	4.9	59
51	Self-assembly of graphene oxide at interfaces. <i>Advanced Materials</i> , <b>2014</b> , 26, 5586-612	24	273
50	Reduction of Graphene Oxide by Hydrogen Sulfide: A Promising Strategy for Pollutant Control and as an Electrode for Li-S Batteries. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301565	21.8	131
49	Monolithic carbons with spheroidal and hierarchical pores produced by the linkage of functionalized graphene sheets. <i>Carbon</i> , <b>2014</b> , 69, 169-177	10.4	74
48	A three-dimensional graphene skeleton as a fast electron and ion transport network for electrochemical applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3031	13	82
47	Oriented and Interlinked Porous Carbon Nanosheets with an Extraordinary Capacitive Performance. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6896-6903	9.6	161
46	Nanospace-confined formation of flattened Sn sheets in pre-seeded graphenes for lithium ion batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 9554-8	7.7	34
45	Preparation and electrochemical performance of a graphene-wrapped carbon/sulphur composite cathode. <i>New Carbon Materials</i> , <b>2014</b> , 29, 309-315	4.4	14
44	Tailoring Microstructure of Graphene-Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3456-3463	15.6	61
43	An interlaced silver vanadium oxide-graphene hybrid with high structural stability for use in lithium ion batteries. <i>Chemical Communications</i> , <b>2014</b> , 50, 13447-50	5.8	26
42	High catalytic activity of anatase titanium dioxide for decomposition of electrolyte solution in lithium ion battery. <i>Journal of Power Sources</i> , <b>2014</b> , 268, 882-886	8.9	21
41	Lithium titanate hybridized with trace amount of graphene used as an anode for a high rate lithium ion battery. <i>Electrochimica Acta</i> , <b>2014</b> , 142, 247-253	6.7	10
40	Rational design of MoS <sub>2</sub> @graphene nanocables: towards high performance electrode materials for lithium ion batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3320-3325	35.4	196
39	Assembly of Ni(OH) <sub>2</sub> -graphene hybrids with a high electrochemical performance by a one-pot hydrothermal method. <i>New Carbon Materials</i> , <b>2014</b> , 29, 426-431	4.4	8

38	3D Hollow Sn@Carbon-Graphene Hybrid Material as Promising Anode for Lithium-Ion Batteries. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-6	3.2	5
37	Graphene: Self-Assembly of Graphene Oxide at Interfaces (Adv. Mater. 32/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 5732-5732	24	1
36	A unique carbon with a high specific surface area produced by the carbonization of agar in the presence of graphene. <i>Chemical Communications</i> , <b>2013</b> , 49, 10427-9	5.8	48
35	Porous MnO <sub>2</sub> for use in a high performance supercapacitor: replication of a 3D graphene network as a reactive template. <i>Chemical Communications</i> , <b>2013</b> , 49, 11092-4	5.8	124
34	High-performance ultrafiltration membranes based on polyethersulfone-graphene oxide composites. <i>RSC Advances</i> , <b>2013</b> , 3, 21394	3.7	65
33	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. <i>Scientific Reports</i> , <b>2013</b> , 3, 2975	4.9	467
32	Towards low temperature thermal exfoliation of graphite oxide for graphene production. <i>Carbon</i> , <b>2013</b> , 62, 11-24	10.4	108
31	pH-dependent size, surface chemistry and electrochemical properties of graphene oxide. <i>New Carbon Materials</i> , <b>2013</b> , 28, 327-335	4.4	36
30	The effect of graphene wrapping on the performance of LiFePO <sub>4</sub> for a lithium ion battery. <i>Carbon</i> , <b>2013</b> , 57, 530-533	10.4	108
29	DNA-dispersed graphene/NiO hybrid materials for highly sensitive non-enzymatic glucose sensor. <i>Electrochimica Acta</i> , <b>2012</b> , 73, 129-135	6.7	89
28	Carbon coating to suppress the reduction decomposition of electrolyte on the Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> electrode. <i>Journal of Power Sources</i> , <b>2012</b> , 202, 253-261	8.9	119
27	Water vapor adsorption on low-temperature exfoliated graphene nanosheets. <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 1440-1443	3.9	14
26	Graphene supported nano particles of Pt/Ni for CO oxidation. <i>Applied Surface Science</i> , <b>2012</b> , 258, 7795-7800	3.9	44
25	Could graphene construct an effective conducting network in a high-power lithium ion battery?. <i>Nano Energy</i> , <b>2012</b> , 1, 429-439	17.1	160
24	Hybridization of graphene oxide and carbon nanotubes at the liquid/air interface. <i>Chemical Communications</i> , <b>2012</b> , 48, 3706-8	5.8	60
23	Gassing in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -based batteries and its remedy. <i>Scientific Reports</i> , <b>2012</b> , 2, 913	4.9	238
22	Functionalization of graphene by tetraphenylethylene using nitrene chemistry. <i>RSC Advances</i> , <b>2012</b> , 2, 7042	3.7	25
21	A graphene/poly(vinyl alcohol) hybrid membrane self-assembled at the liquid/air interface: enhanced mechanical performance and promising saturable absorber. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17204		22

20	A graphene-based nanostructure with expanded ion transport channels for high rate Li-ion batteries. <i>Chemical Communications</i> , <b>2012</b> , 48, 5904-6	5.8	67
19	pH-Mediated fine-tuning of optical properties of graphene oxide membranes. <i>Carbon</i> , <b>2012</b> , 50, 3233-3239	3.4	24
18	Spatial and temporal film thickness measurement of a soap bubble based on large lateral shearing displacement interferometry. <i>Applied Optics</i> , <b>2012</b> , 51, 8863-72	1.7	11
17	Adsorption of lead(II) ions from aqueous solution on low-temperature exfoliated graphene nanosheets. <i>Langmuir</i> , <b>2011</b> , 27, 7558-62	4	360
16	One-pot self-assembly of three-dimensional graphene macroassemblies with porous core and layered shell. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 12352		62
15	Conductive graphene-based macroscopic membrane self-assembled at a liquid-air interface. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3359		42
14	Graphene oxide hydrogel at solid/liquid interface. <i>Chemical Communications</i> , <b>2011</b> , 47, 5771-3	5.8	49
13	A sandwich structure of graphene and nickel oxide with excellent supercapacitive performance. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 9014		115
12	Functionalization of Graphene Sheets by Polyacetylene: Convenient Synthesis and Enhanced Emission. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 768-773	2.6	49
11	Vertically Aligned Carbon Nanotubes Grown on Graphene Paper as Electrodes in Lithium-Ion Batteries and Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 486-490	21.8	279
10	Ultrathin carbon nanotube-DNA hybrid membrane formation by simple physical adsorption onto a thin alumina substrate. <i>Nanotechnology</i> , <b>2010</b> , 21, 285601	3.4	3
9	Flexible and planar graphene conductive additives for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9644		250
8	Graphene-DNA hybrids: self-assembly and electrochemical detection performance. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 6668		105
7	Safety properties of liquid state soft pack high power batteries with carbon-coated LiFePO <sub>4</sub> /graphite electrodes. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 751-756	2.6	11
6	Self-Assembled Free-Standing Graphite Oxide Membrane. <i>Advanced Materials</i> , <b>2009</b> , 21, 3007-3011	24	788
5	Low-temperature exfoliated graphenes: vacuum-promoted exfoliation and electrochemical energy storage. <i>ACS Nano</i> , <b>2009</b> , 3, 3730-6	16.7	633
4	Constructing a highly efficient solid-polymer-solid-elastic ion transport network in cathodes activates the room temperature performance of all-solid-state lithium batteries. <i>Energy and Environmental Science</i> ,	35.4	5
3	Dendrite-Free Non-Newtonian Semisolid Lithium Metal Anode. <i>ACS Energy Letters</i> , 3761-3768	20.1	3

- 2 Ultrafast presodiation of graphene anodes for high-efficiency and high-rate sodium-ion storage. *Information Materials*, 23.1 6
- 1 Regulating Li-ion Flux through a Dense yet Highly Ionic Conductive Interlayer for Stable Li Deposition. *Advanced Materials Interfaces*, 2200457 4.6 1