Wei Lv

List of Publications by Citations

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	Self-Assembled Free-Standing Graphite Oxide Membrane. *Advanced Materials*, **2009**, 21, 3007-3011	24	788
216	Twinborn TiO2−TiN heterostructures enabling smooth trapping-diffusion-conversion of polysulfides towards ultralong life lithium-sulfur batteries. *Energy and Environmental Science*, **2017**, 10, 1694-1703	35.4	647
215	Low-temperature exfoliated graphenes: vacuum-promoted exfoliation and electrochemical energy storage. *ACS Nano*, **2009**, 3, 3730-6	16.7	633
214	Chemical Dealloying Derived 3D Porous Current Collector for Li Metal Anodes. *Advanced Materials*, **2016**, 28, 6932-9	24	586
213	Catalytic Effects in Lithium-Sulfur Batteries: Promoted Sulfur Transformation and Reduced Shuttle Effect. *Advanced Science*, **2018**, 5, 1700270	13.6	471
212	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. *Scientific Reports*, **2013**, 3, 2975	4.9	467
211	Adsorption of lead(II) ions from aqueous solution on low-temperature exfoliated graphene nanosheets. *Langmuir*, **2011**, 27, 7558-62	4	360
210	Graphene-based materials for electrochemical energy storage devices: Opportunities and challenges. *Energy Storage Materials*, **2016**, 2, 107-138	19.4	314
209	Towards superior volumetric performance: design and preparation of novel carbon materials for energy storage. *Energy and Environmental Science*, **2015**, 8, 1390-1403	35.4	304
208	Achieving superb sodium storage performance on carbon anodes through an ether-derived solid electrolyte interphase. *Energy and Environmental Science*, **2017**, 10, 370-376	35.4	297
207	Capture and Catalytic Conversion of Polysulfides by In Situ Built TiO2-MXene Heterostructures for Lithium-Sulfur Batteries. *Advanced Energy Materials*, **2019**, 9, 1900219	21.8	291
206	Vertically Aligned Carbon Nanotubes Grown on Graphene Paper as Electrodes in Lithium-Ion Batteries and Dye-Sensitized Solar Cells. *Advanced Energy Materials*, **2011**, 1, 486-490	21.8	279
205	Propelling polysulfides transformation for high-rate and long-life lithium-sulfur batteries. *Nano Energy*, **2017**, 33, 306-312	17.1	277
204	Self-assembly of graphene oxide at interfaces. *Advanced Materials*, **2014**, 26, 5586-612	24	273
203	Two-Dimensional Porous Carbon: Synthesis and Ion-Transport Properties. *Advanced Materials*, **2015**, 27, 5388-95	24	263
202	Flexible and planar graphene conductive additives for lithium-ion batteries. *Journal of Materials Chemistry*, **2010**, 20, 9644		250
201	Low Resistance-Integrated All-Solid-State Battery Achieved by Li7La3Zr2O12 Nanowire Upgrading Polyethylene Oxide (PEO) Composite Electrolyte and PEO Cathode Binder. *Advanced Functional Materials*, **2019**, 29, 1805301	15.6	240

200	Gassing in Li(4)Ti(5)O(12)-based batteries and its remedy. *Scientific Reports*, **2012**, 2, 913	4.9	238
199	Compact 3D Copper with Uniform Porous Structure Derived by Electrochemical Dealloying as Dendrite-Free Lithium Metal Anode Current Collector. *Advanced Energy Materials*, **2018**, 8, 1800266	21.8	226
198	Vertically Aligned Lithiophilic CuO Nanosheets on a Cu Collector to Stabilize Lithium Deposition for Lithium Metal Batteries. *Advanced Energy Materials*, **2018**, 8, 1703404	21.8	198
197	Rational design of MoS2@graphene nanocables: towards high performance electrode materials for lithium ion batteries. *Energy and Environmental Science*, **2014**, 7, 3320-3325	35.4	196
196	Fast Gelation of Ti C T MXene Initiated by Metal Ions. *Advanced Materials*, **2019**, 31, e1902432	24	193
195	Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. *Nature Communications*, **2018**, 9, 402	17.4	186
194	A sheet-like porous carbon for high-rate supercapacitors produced by the carbonization of an eggplant. *Carbon*, **2015**, 92, 11-14	10.4	182
193	Progress and Perspective of Ceramic/Polymer Composite Solid Electrolytes for Lithium Batteries. *Advanced Science*, **2020**, 7, 1903088	13.6	179
192	Dense coating of Li4Ti5O12 and graphene mixture on the separator to produce long cycle life of lithium-sulfur battery. *Nano Energy*, **2016**, 30, 1-8	17.1	164
191	Oriented and Interlinked Porous Carbon Nanosheets with an Extraordinary Capacitive Performance. *Chemistry of Materials*, **2014**, 26, 6896-6903	9.6	161
190	Could graphene construct an effective conducting network in a high-power lithium ion battery?. *Nano Energy*, **2012**, 1, 429-439	17.1	160
189	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. *Nature Communications*, **2019**, 10, 725	17.4	156
188	Bidirectional Catalysts for Liquid-Solid Redox Conversion in Lithium-Sulfur Batteries. *Advanced Materials*, **2020**, 32, e2000315	24	137
187	Reduction of Graphene Oxide by Hydrogen Sulfide: A Promising Strategy for Pollutant Control and as an Electrode for Li-S Batteries. *Advanced Energy Materials*, **2014**, 4, 1301565	21.8	131
186	Self-Assembled 3D Graphene Monolith from Solution. *Journal of Physical Chemistry Letters*, **2015**, 6, 658-68	6.4	131
185	Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. *Nature Communications*, **2019**, 10, 4244	17.4	128
184	Multilayered silicon embedded porous carbon/graphene hybrid film as a high performance anode. *Carbon*, **2015**, 84, 434-443	10.4	124
183	Commercial carbon molecular sieves as a high performance anode for sodium-ion batteries. *Energy Storage Materials*, **2016**, 3, 18-23	19.4	124

182	Porous MnO2 for use in a high performance supercapacitor: replication of a 3D graphene network as a reactive template. *Chemical Communications*, **2013**, 49, 11092-4	5.8	124
181	Carbon coating to suppress the reduction decomposition of electrolyte on the Li4Ti5O12 electrode. *Journal of Power Sources*, **2012**, 202, 253-261	8.9	119
180	Functional Carbons Remedy the Shuttling of Polysulfides in Lithium–Sulfur Batteries: Confining, Trapping, Blocking, and Breaking up. *Advanced Functional Materials*, **2018**, 28, 1800508	15.6	117
179	An in-plane heterostructure of graphene and titanium carbide for efficient polysulfide confinement. *Nano Energy*, **2017**, 39, 291-296	17.1	117
178	One-pot self-assembly of graphene/carbon nanotube/sulfur hybrid with three dimensionally interconnected structure for lithium–sulfur batteries. *Journal of Power Sources*, **2015**, 295, 182-189	8.9	115
177	A sandwich structure of graphene and nickel oxide with excellent supercapacitive performance. *Journal of Materials Chemistry*, **2011**, 21, 9014		115
176	N and S co-doped porous carbon spheres prepared using L-cysteine as a dual functional agent for high-performance lithium-sulfur batteries. *Chemical Communications*, **2015**, 51, 17720-3	5.8	109
175	Optimized Catalytic WS2–WO3 Heterostructure Design for Accelerated Polysulfide Conversion in Lithium–Sulfur Batteries. *Advanced Energy Materials*, **2020**, 10, 2000091	21.8	109
174	Towards low temperature thermal exfoliation of graphite oxide for graphene production. *Carbon*, **2013**, 62, 11-24	10.4	108
173	The effect of graphene wrapping on the performance of LiFePO4 for a lithium ion battery. *Carbon*, **2013**, 57, 530-533	10.4	108
172	Graphitic Carbon Nitride Induced Micro-Electric Field for Dendrite-Free Lithium Metal Anodes. *Advanced Energy Materials*, **2019**, 9, 1803186	21.8	106
171	Graphene-DNA hybrids: self-assembly and electrochemical detection performance. *Journal of Materials Chemistry*, **2010**, 20, 6668		105
170	Sulfur confined in nitrogen-doped microporous carbon used in a carbonate-based electrolyte for long-life, safe lithium-sulfur batteries. *Carbon*, **2016**, 109, 1-6	10.4	98
169	DNA-dispersed graphene/NiO hybrid materials for highly sensitive non-enzymatic glucose sensor. *Electrochimica Acta*, **2012**, 73, 129-135	6.7	89
168	Disassembly-Reassembly Approach to RuO /Graphene Composites for Ultrahigh Volumetric Capacitance Supercapacitor. *Small*, **2017**, 13, 1701026	11	85
167	Dual targeted nanocarrier for brain ischemic stroke treatment. *Journal of Controlled Release*, **2016**, 233, 64-71	11.7	84
166	Carbon enables the practical use of lithium metal in a battery. *Carbon*, **2017**, 123, 744-755	10.4	83
165	A high-density graphene-sulfur assembly: a promising cathode for compact Li-S batteries. *Nanoscale*, **2015**, 7, 5592-7	7.7	83

164	A three-dimensional graphene skeleton as a fast electron and ion transport network for electrochemical applications. *Journal of Materials Chemistry A*, **2014**, 2, 3031	13	82
163	Reviving catalytic activity of nitrides by the doping of the inert surface layer to promote polysulfide conversion in lithium-sulfur batteries. *Nano Energy*, **2019**, 60, 305-311	17.1	77
162	Catalyzing polysulfide conversion by g-C3N4 in a graphene network for long-life lithium-sulfur batteries. *Nano Research*, **2018**, 11, 3480-3489	10	77
161	A carbon sandwich electrode with graphene filling coated by N-doped porous carbon layers for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2015**, 3, 20218-20224	13	76
160	Spherical Li Deposited inside 3D Cu Skeleton as Anode with Ultrastable Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 20244-20249	9.5	76
159	Monolithic carbons with spheroidal and hierarchical pores produced by the linkage of functionalized graphene sheets. *Carbon*, **2014**, 69, 169-177	10.4	74
158	Concrete-inspired construction of a silicon/carbon hybrid electrode for high performance lithium ion battery. *Carbon*, **2015**, 93, 59-67	10.4	71
157	Ultrafast high-volumetric sodium storage of folded-graphene electrodes through surface-induced redox reactions. *Energy Storage Materials*, **2015**, 1, 112-118	19.4	69
156	Unsaturated Single Atoms on Monolayer Transition Metal Dichalcogenides for Ultrafast Hydrogen Evolution. *ACS Nano*, **2020**, 14, 767-776	16.7	69
155	A graphene-based nanostructure with expanded ion transport channels for high rate Li-ion batteries. *Chemical Communications*, **2012**, 48, 5904-6	5.8	67
154	High-performance ultrafiltration membranes based on polyethersulfone–graphene oxide composites. *RSC Advances*, **2013**, 3, 21394	3.7	65
153	Electrostatic-spraying an ultrathin, multifunctional and compact coating onto a cathode for a long-life and high-rate lithium-sulfur battery. *Nano Energy*, **2016**, 30, 138-145	17.1	65
152	A Lightweight 3D Cu Nanowire Network with Phosphidation Gradient as Current Collector for High-Density Nucleation and Stable Deposition of Lithium. *Advanced Materials*, **2019**, 31, e1904991	24	64
151	Li-ion and Na-ion transportation and storage properties in various sized TiO2 spheres with hierarchical pores and high tap density. *Journal of Materials Chemistry A*, **2017**, 5, 4359-4367	13	64
150	In-situ topochemical nitridation derivative MoO2–Mo2N binary nanobelts as multifunctional interlayer for fast-kinetic Li-Sulfur batteries. *Nano Energy*, **2020**, 68, 104356	17.1	64
149	How a very trace amount of graphene additive works for constructing an efficient conductive network in LiCoO2-based lithium-ion batteries. *Carbon*, **2016**, 103, 356-362	10.4	64
148	Theoretical Investigation of the Intercalation Chemistry of Lithium/Sodium Ions in Transition Metal Dichalcogenides. *Journal of Physical Chemistry C*, **2017**, 121, 13599-13605	3.8	62
147	One-pot self-assembly of three-dimensional graphene macroassemblies with porous core and layered shell. *Journal of Materials Chemistry*, **2011**, 21, 12352		62

146	Tailoring Microstructure of Graphene-Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. *Advanced Functional Materials*, **2014**, 24, 3456-3463	15.6	61
145	Hybridization of graphene oxide and carbon nanotubes at the liquid/air interface. *Chemical Communications*, **2012**, 48, 3706-8	5.8	60
144	Unusual high oxygen reduction performance in all-carbon electrocatalysts. *Scientific Reports*, **2014**, 4, 6289	4.9	59
143	Evolution of the effect of sulfur confinement in graphene-based porous carbons for use in Li-S batteries. *Nanoscale*, **2016**, 8, 4447-51	7.7	59
142	Elevated polysulfide regulation by an ultralight all-CVD-built ReS2@N-Doped graphene heterostructure interlayer for lithium–sulfur batteries. *Nano Energy*, **2019**, 66, 104190	17.1	57
141	Twin-functional graphene oxide: compacting with Fe 2 O 3 into a high volumetric capacity anode for lithium ion battery. *Energy Storage Materials*, **2017**, 6, 98-103	19.4	56
140	The Interplay of Oxygen Functional Groups and Folded Texture in Densified Graphene Electrodes for Compact Sodium-Ion Capacitors. *Advanced Energy Materials*, **2018**, 8, 1702395	21.8	55
139	Selective Catalysis Remedies Polysulfide Shuttling in Lithium-Sulfur Batteries. *Advanced Materials*, **2021**, 33, e2101006	24	55
138	Constructing a High-Strength Solid Electrolyte Layer by In Vivo Alloying with Aluminum for an Ultrahigh-Rate Lithium Metal Anode. *Advanced Functional Materials*, **2020**, 30, 1907343	15.6	53
137	A MoS2/Carbon hybrid anode for high-performance Li-ion batteries at low temperature. *Nano Energy*, **2020**, 70, 104550	17.1	52
136	Dual-functional hard template directed one-step formation of a hierarchical porous carbon-carbon nanotube hybrid for lithium-sulfur batteries. *Chemical Communications*, **2016**, 52, 12143-12146	5.8	51
135	Transcriptome Analysis Reveals Distinct Gene Expression Profiles in Eosinophilic and Noneosinophilic Chronic Rhinosinusitis with Nasal Polyps. *Scientific Reports*, **2016**, 6, 26604	4.9	50
134	Multifunctional binder designs for lithium-sulfur batteries. *Journal of Energy Chemistry*, **2019**, 39, 88-100	12	49
133	Graphene oxide hydrogel at solid/liquid interface. *Chemical Communications*, **2011**, 47, 5771-3	5.8	49
132	Functionalization of Graphene Sheets by Polyacetylene: Convenient Synthesis and Enhanced Emission. *Macromolecular Chemistry and Physics*, **2011**, 212, 768-773	2.6	49
131	Seeding lithium seeds towards uniform lithium deposition for stable lithium metal anodes. *Nano Energy*, **2019**, 61, 47-53	17.1	48
130	A unique carbon with a high specific surface area produced by the carbonization of agar in the presence of graphene. *Chemical Communications*, **2013**, 49, 10427-9	5.8	48
129	Realizing stable lithium deposition by in situ grown Cu2S nanowires inside commercial Cu foam for lithium metal anodes. *Journal of Materials Chemistry A*, **2019**, 7, 727-732	13	47

128	Packing Activated Carbons into Dense Graphene Network by Capillarity for High Volumetric Performance Supercapacitors. *Advanced Science*, **2019**, 6, 1802355	13.6	46
127	Graphene Emerges as a Versatile Template for Materials Preparation. *Small*, **2016**, 12, 2674-88	11	46
126	A hybrid of holey graphene and Mn3O4 and its oxygen reduction reaction performance. *Chemical Communications*, **2015**, 51, 3911-4	5.8	46
125	A Directional Strain Sensor Based on Anisotropic Microhoneycomb Cellulose Nanofiber-Carbon Nanotube Hybrid Aerogels Prepared by Unidirectional Freeze Drying. *Small*, **2019**, 15, e1805363	11	46
124	Deactivating Defects in Graphenes with Al2O3 Nanoclusters to Produce Long-Life and High-Rate Sodium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803078	21.8	46
123	LiNi0.8Co0.15Al0.05O2 as both a trapper and accelerator of polysulfides for lithium-sulfur batteries. *Energy Storage Materials*, **2019**, 17, 111-117	19.4	45
122	ZnS spheres wrapped by an ultrathin wrinkled carbon film as a multifunctional interlayer for long-life Li□S batteries. *Journal of Materials Chemistry A*, **2020**, 8, 231-241	13	45
121	Graphene supported nano particles of Pt□Ni for CO oxidation. *Applied Surface Science*, **2012**, 258, 7795-7800	6.9	44
120	Facile synthesis of ZnO nanorods grown on graphene sheets and its enhanced photocatalytic efficiency. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 550-558	3.5	42
119	Engineering Graphenes from the Nano- to the Macroscale for Electrochemical Energy Storage. *Electrochemical Energy Reviews*, **2018**, 1, 139-168	29.3	42
118	Conductive graphene-based macroscopic membrane self-assembled at a liquid□air interface. *Journal of Materials Chemistry*, **2011**, 21, 3359		42
117	A lightweight carbon nanofiber-based 3D structured matrix with high nitrogen-doping level for lithium metal anodes. *Science China Materials*, **2019**, 62, 87-94	7.1	41
116	Engineering d-p Orbital Hybridization in Single-Atom Metal-Embedded Three-Dimensional Electrodes for Li-S Batteries. *Advanced Materials*, **2021**, 33, e2105947	24	41
115	Necklace-like MoC sulfiphilic sites embedded in interconnected carbon networks for Li□S batteries with high sulfur loading. *Journal of Materials Chemistry A*, **2019**, 7, 11298-11304	13	39
114	Cobalt-Doping of Molybdenum Disulfide for Enhanced Catalytic Polysulfide Conversion in Lithium-Sulfur Batteries. *ACS Nano*, **2021**, 15, 7491-7499	16.7	39
113	An air-stable and waterproof lithium metal anode enabled by wax composite packaging. *Science Bulletin*, **2019**, 64, 910-917	10.6	36
112	pH-dependent size, surface chemistry and electrochemical properties of graphene oxide. *New Carbon Materials*, **2013**, 28, 327-335	4.4	36
111	Efficient polysulfide blocker from conductive niobium nitride@graphene for Li-S batteries. *Journal of Energy Chemistry*, **2020**, 45, 135-141	12	36

110	Oxygen-enriched carbon nanotubes as a bifunctional catalyst promote the oxygen reduction/evolution reactions in Li-O2 batteries. *Carbon*, **2019**, 141, 561-567	10.4	36
109	Room-temperature liquid metal-based anodes for high-energy potassium-based electrochemical devices. *Chemical Communications*, **2018**, 54, 8032-8035	5.8	35
108	Electrode thickness control: Precondition for quite different functions of graphene conductive additives in LiFePO4 electrode. *Carbon*, **2015**, 92, 311-317	10.4	34
107	Precise carbon structure control by salt template for high performance sodium-ion storage. *Journal of Energy Chemistry*, **2019**, 31, 101-106	12	34
106	Nanospace-confined formation of flattened Sn sheets in pre-seeded graphenes for lithium ion batteries. *Nanoscale*, **2014**, 6, 9554-8	7.7	34
105	Status and prospects of porous graphene networks for lithium–sulfur batteries. *Materials Horizons*, **2020**, 7, 2487-2518	14.4	33
104	A high-performance lithium ion oxygen battery consisting of Li2O2 cathode and lithiated aluminum anode with nafion membrane for reduced O2 crossover. *Nano Energy*, **2017**, 40, 258-263	17.1	31
103	A Nacre-Like Carbon Nanotube Sheet for High Performance Li-Polysulfide Batteries with High Sulfur Loading. *Advanced Science*, **2018**, 5, 1800384	13.6	30
102	Holey graphenes as the conductive additives for LiFePO4 batteries with an excellent rate performance. *Carbon*, **2019**, 149, 257-262	10.4	29
101	A Li-ion sulfur full cell with ambient resistant Al-Li alloy anode. *Energy Storage Materials*, **2018**, 15, 209-217	19.4	28
100	A Functionalized Carbon Surface for High-Performance Sodium-Ion Storage. *Small*, **2020**, 16, e1902603	11	28
99	An organic nickel salt-based electrolyte additive boosts homogeneous catalysis for lithium-sulfur batteries. *Energy Storage Materials*, **2020**, 33, 290-297	19.4	27
98	Lamellar MXene Composite Aerogels with Sandwiched Carbon Nanotubes Enable Stable Lithium–Sulfur Batteries with a High Sulfur Loading. *Advanced Functional Materials*, **2021**, 31, 2100793	15.6	27
97	An interlaced silver vanadium oxide-graphene hybrid with high structural stability for use in lithium ion batteries. *Chemical Communications*, **2014**, 50, 13447-50	5.8	26
96	Photocatalytic degradation of ranitidine and reduction of nitrosamine dimethylamine formation potential over MXene-TiC/MoS under visible light irradiation. *Journal of Hazardous Materials*, **2021**, 413, 125424	12.8	26
95	Electrode Design from "Internal" to "External" for High Stability Silicon Anodes in Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 14142-14149	9.5	25
94	Functionalization of graphene by tetraphenylethylene using nitrene chemistry. *RSC Advances*, **2012**, 2, 7042	3.7	25
93	pH-Mediated fine-tuning of optical properties of graphene oxide membranes. *Carbon*, **2012**, 50, 3233-3239	10.4	24

92	Carbon coated porous tin peroxide/carbon composite electrode for lithium-ion batteries with excellent electrochemical properties. *Carbon*, **2015**, 81, 739-747	10.4	23
91	Micron-sized Spherical Si/C Hybrids Assembled via Water/Oil System for High-Performance Lithium Ion Battery. *Electrochimica Acta*, **2016**, 211, 982-988	6.7	23
90	Rich Heterointerfaces Enabling Rapid Polysulfides Conversion and Regulated LiS Deposition for High-Performance Lithium-Sulfur Batteries. *ACS Nano*, **2021**,	16.7	23
89	Interlayers for lithium-based batteries. *Energy Storage Materials*, **2019**, 23, 112-136	19.4	22
88	Wasp nest-imitated assembly of elastic rGO/p-Ti3C2Tx MXene-cellulose nanofibers for high-performance sodium-ion batteries. *Carbon*, **2019**, 153, 625-633	10.4	22
87	A graphene/poly(vinyl alcohol) hybrid membrane self-assembled at the liquid/air interface: enhanced mechanical performance and promising saturable absorber. *Journal of Materials Chemistry*, **2012**, 22, 17204		22
86	Nitrate Additives Coordinated with Crown Ether Stabilize Lithium Metal Anodes in Carbonate Electrolyte. *Advanced Functional Materials*, **2021**, 31, 2102128	15.6	22
85	A Hollow Spherical Carbon Derived from the Spray Drying of Corncob Lignin for High-Rate-Performance Supercapacitors. *Chemistry - an Asian Journal*, **2017**, 12, 503-506	4.5	21
84	A Three-Layer All-In-One Flexible Graphene Film Used as an Integrated Supercapacitor. *Advanced Materials Interfaces*, **2017**, 4, 1700004	4.6	21
83	Towards a reliable Li-metal-free LiNO3-free Li-ion polysulphide full cell via parallel interface engineering. *Energy and Environmental Science*, **2018**, 11, 2509-2520	35.4	21
82	High catalytic activity of anatase titanium dioxide for decomposition of electrolyte solution in lithium ion battery. *Journal of Power Sources*, **2014**, 268, 882-886	8.9	21
81	A Dual-Function Na SO Template Directed Formation of Cathode Materials with a High Content of Sulfur Nanodots for Lithium-Sulfur Batteries. *Small*, **2017**, 13, 1700358	11	20
80	Enhanced Antiglioblastoma Efficacy of Neovasculature and Glioma Cells Dual Targeted Nanoparticles. *Molecular Pharmaceutics*, **2016**, 13, 3506-3517	5.6	20
79	Promoted conversion of polysulfides by MoO2 inlaid ordered mesoporous carbons towards high performance lithium-sulfur batteries. *Chinese Chemical Letters*, **2019**, 30, 521-524	8.1	20
78	A Passionfruit-Like Carbon-Confined Cu2ZnSnS4 Anode for Ultralong-Life Sodium Storage. *Advanced Energy Materials*, **2021**, 11, 2100082	21.8	19
77	A Protective Layer for Lithium Metal Anode: Why and How.. *Small Methods*, **2021**, 5, e2001035	12.8	19
76	Theoretical Investigation of the Electrochemical Performance of Transition Metal Nitrides for Lithium–Sulfur Batteries. *Journal of Physical Chemistry C*, **2019**, 123, 25025-25030	3.8	18
75	Abundant grain boundaries activate highly efficient lithium ion transportation in high rate Li4Ti5O12 compact microspheres. *Journal of Materials Chemistry A*, **2019**, 7, 1168-1176	13	18

74	An ion-conducting SnS$_2$/SnS2 hybrid coating for commercial activated carbons enabling their use as high performance anodes for sodium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 10761-10768	13	18
73	Easy fabrication of flexible and multilayer nanocarbon-based cathodes with a high unreal sulfur loading by electrostatic spraying for lithium-sulfur batteries. *Carbon*, **2018**, 138, 18-25	10.4	18
72	Capillary shrinkage of graphene oxide hydrogels. *Science China Materials*, **2020**, 63, 1870-1877	7.1	18
71	Dense graphene monolith oxygen cathodes for ultrahigh volumetric energy densities. *Energy Storage Materials*, **2017**, 9, 134-139	19.4	17
70	Synthesizing multilayer graphene from amorphous activated carbon via ammonia-assisted hydrothermal method. *Carbon*, **2019**, 152, 24-32	10.4	17
69	Metallic Liquid Gating Membranes. *ACS Nano*, **2020**, 14, 2465-2474	16.7	17
68	Intercalation-Induced Conversion Reactions Give High-Capacity Potassium Storage. *ACS Nano*, **2020**, 14, 14026-14035	16.7	17
67	Highly stretchable and reliable graphene oxide-reinforced liquid gating membranes for tunable gas/liquid transport. *Microsystems and Nanoengineering*, **2020**, 6, 43	7.7	17
66	Sulfur-functionalized three-dimensional graphene monoliths as high-performance anodes for ultrafast sodium-ion storage. *Chemical Communications*, **2018**, 54, 4317-4320	5.8	16
65	A Carbon-Sulfur Hybrid with Pomegranate-like Structure for Lithium-Sulfur Batteries. *Chemistry - an Asian Journal*, **2016**, 11, 1343-7	4.5	16
64	Occupational and environmental risk factors for chronic rhinosinusitis in China: a multicentre cross-sectional study. *Respiratory Research*, **2016**, 17, 54	7.3	16
63	1000 Wh L lithium-ion batteries enabled by crosslink-shrunk tough carbon encapsulated silicon microparticle anodes. *National Science Review*, **2021**, 8, nwab012	10.8	16
62	A one-step hard-templating method for the preparation of a hierarchical microporous-mesoporous carbon for lithium-sulfur batteries. *New Carbon Materials*, **2017**, 32, 289-296	4.4	15
61	An interlayer composed of a porous carbon sheet embedded with TiO nanoparticles for stable and high rate lithium-sulfur batteries. *Nanoscale*, **2020**, 12, 12308-12316	7.7	15
60	Graphene-Directed Formation of a Nitrogen-Doped Porous Carbon Sheet with High Catalytic Performance for the Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2018**, 122, 13508-13514	3.8	15
59	Dense organic molecules/graphene network anodes with superior volumetric and areal performance for asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2020**, 8, 461-469	13	15
58	Porous graphene oxide-based carbon artefact with high capacity for methylene blue adsorption. *Adsorption*, **2016**, 22, 1043-1050	2.6	15
57	Direct assembly of micron-size porous graphene spheres with a high density as supercapacitor materials. *Carbon*, **2019**, 149, 492-498	10.4	14

56	Building Magnetoresponsive Composite Elastomers for Bionic Locomotion Applications. *Journal of Bionic Engineering*, **2020**, 17, 405-420	2.7	14
55	Preparation and electrochemical performance of a graphene-wrapped carbon/sulphur composite cathode. *New Carbon Materials*, **2014**, 29, 309-315	4.4	14
54	Water vapor adsorption on low-temperature exfoliated graphene nanosheets. *Journal of Physics and Chemistry of Solids*, **2012**, 73, 1440-1443	3.9	14
53	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. *Advanced Functional Materials*, **2019**, 29, 1900311	15.6	13
52	A new Suzuki synthesis of triphenylethylenes that inhibit aromatase and bind to estrogen receptors and *Bioorganic and Medicinal Chemistry*, **2016**, 24, 5400-5409	3.4	13
51	Interconnected Ultrasmall VO and LiTiO Particles Construct Robust Interfaces for Long-Cycling Anodes of Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 29993-30000	9.5	12
50	Reconfiguring confined magnetic colloids with tunable fluid transport behavior. *National Science Review*, **2021**, 8, nwaa301	10.8	12
49	A multifunctional artificial protective layer for producing an ultra-stable lithium metal anode in a commercial carbonate electrolyte. *Journal of Materials Chemistry A*, **2021**, 9, 7667-7674	13	12
48	Layered MXene Protected Lithium Metal Anode as an Efficient Polysulfide Blocker for Lithium-Sulfur Batteries. *Batteries and Supercaps*, **2020**, 3, 892-899	5.6	11
47	Spatial and temporal film thickness measurement of a soap bubble based on large lateral shearing displacement interferometry. *Applied Optics*, **2012**, 51, 8863-72	1.7	11
46	Safety properties of liquid state soft pack high power batteries with carbon-coated LiFePO4/graphite electrodes. *Journal of Solid State Electrochemistry*, **2010**, 14, 751-756	2.6	11
45	Graphene-Templated Growth of WS2 Nanoclusters for Catalytic Conversion of Polysulfides in LithiumSulfur Batteries. *ACS Applied Energy Materials*, **2020**, 3, 4923-4930	6.1	11
44	Lithium titanate hybridized with trace amount of graphene used as an anode for a high rate lithium ion battery. *Electrochimica Acta*, **2014**, 142, 247-253	6.7	10
43	A Reduced Graphene Oxide/Disodium Terephthalate Hybrid as a High-Performance Anode for Sodium-Ion Batteries. *Chemistry - A European Journal*, **2017**, 23, 16586-16592	4.8	10
42	Revisiting the Roles of Natural Graphite in Ongoing Lithium-ion Batteries.. *Advanced Materials*, **2022**, e2106704	24	10
41	High-performance graphene/disodium terephthalate electrodes with ether electrolyte for exceptional cooperative sodiation/desodiation. *Nano Energy*, **2020**, 77, 105203	17.1	10
40	Crowning Metal Ions by Supramolecularization as a General Remedy toward a Dendrite-Free Alkali-Metal Battery. *Advanced Materials*, **2021**, 33, e2101745	24	10
39	A Stable Cross-Linked Binder Network for SnO2 Anode with Enhanced Sodium-Ion Storage Performance. *ChemistrySelect*, **2017**, 2, 11365-11369	1.8	9

38	Prevalence and Occupational and Environmental Risk Factors of Self-Reported Asthma: Evidence from a Cross-Sectional Survey in Seven Chinese Cities. *International Journal of Environmental Research and Public Health*, **2016**, 13,	4.6	9
37	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). *Advanced Functional Materials*, **2019**, 29, 1970006	15.6	9
36	H2S + SO2 produces water-dispersed sulfur nanoparticles for lithium-sulfur batteries. *Nano Energy*, **2017**, 41, 665-673	17.1	8
35	Assembly of Ni(OH)2-graphene hybrids with a high electrochemical performance by a one-pot hydrothermal method. *New Carbon Materials*, **2014**, 29, 426-431	4.4	8
34	Regulating the Li2S Deposition by Grain Boundaries in Metal Nitrides for Stable Lithium-Sulfur Batteries. *Nano Energy*, **2021**, 106669	17.1	8
33	Realizing Ultralow Concentration Gelation of Graphene Oxide with Artificial Interfaces. *Advanced Materials*, **2019**, 31, e1805075	24	8
32	A Gradient Topology Host for a Dendrite-free Lithium Metal Anode. *Nano Energy*, **2022**, 94, 106937	17.1	7
31	Vertical Graphenes Grown on a Flexible Graphite Paper as an All-Carbon Current Collector towards Stable Li Deposition. *Research*, **2020**, 2020, 7163948	7.8	7
30	Research Advances of Carbon-based Anode Materials for Sodium-Ion Batteries. *Acta Chimica Sinica*, **2017**, 75, 163	3.3	7
29	Electron and Ion Co-Conductive Catalyst Achieving Instant Transformation of Lithium Polysulfide towards Li S. *Advanced Materials*, **2021**, e2105362	24	7
28	l-Cysteine-Modified Acacia Gum as a Multifunctional Binder for Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 47956-47962	9.5	7
27	Fast three-dimensional assembly of MoS2 inspired by the gelation of graphene oxide. *Science China Materials*, **2019**, 62, 745-750	7.1	7
26	High-Level Heteroatom Doped Two-Dimensional Carbon Architectures for Highly Efficient Lithium-Ion Storage. *Frontiers in Chemistry*, **2018**, 6, 97	5	6
25	Supercapacitors: Packing Activated Carbons into Dense Graphene Network by Capillarity for High Volumetric Performance Supercapacitors (Adv. Sci. 14/2019). *Advanced Science*, **2019**, 6, 1970086	13.6	6
24	A Robust Integrated SnOx/Carbon Composite Anode for Sodium-Ion Batteries. *ChemistrySelect*, **2018**, 3, 10869-10874	1.8	6
23	Ultrafast presodiation of graphene anodes for high-efficiency and high-rate sodium-ion storage. *Informa Materly*,	23.1	6
22	Porous carbons derived from carbonization of tissue papers for supercapacitors. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 11250-11256	2.1	5
21	Dense yet highly ion permeable graphene electrodes obtained by capillary-drying of a holey graphene oxide assembly. *Journal of Materials Chemistry A*, **2019**, 7, 12691-12697	13	5

20	3D Hollow Sn@Carbon-Graphene Hybrid Material as Promising Anode for Lithium-Ion Batteries. *Journal of Nanomaterials*, **2014**, 2014, 1-6	3.2	5
19	Constructing a highly efficient Solid Polymer Solid elastic ion transport network in cathodes activates the room temperature performance of all-solid-state lithium batteries. *Energy and Environmental Science*,	35.4	5
18	Coordinated Adsorption and Catalytic Conversion of Polysulfides Enabled by Perovskite Bimetallic Hydroxide Nanocages for Lithium-Sulfur Batteries. *Small*, **2021**, 17, e2101538	11	5
17	pH-Dependent Morphology Control of Cellulose Nanofiber/Graphene Oxide Cryogels. *Small*, **2021**, 17, e2005564	11	5
16	Carbon: Two-Dimensional Porous Carbon: Synthesis and Ion-Transport Properties (Adv. Mater. 36/2015). *Advanced Materials*, **2015**, 27, 5254-5254	24	4
15	Confined growth of Fe2O3 nanoparticles by holey graphene for enhanced sodium-ion storage. *Carbon*, **2021**, 176, 31-38	10.4	4
14	Constructing a Reinforced and Gradient Solid Electrolyte Interphase on Si Nanoparticles by In-Situ Thiol-Ene Click Reaction for Long Cycling Lithium-Ion Batteries. *Small*, **2021**, 17, e2102316	11	4
13	A (110) Facet-Dominated Vanadium Dioxide Enabling Bidirectional Electrocatalysis for Lithium-Sulfur Batteries. *ACS Nano*, **2021**, 15, 16878-16886	16.7	4
12	A Highly Efficient Ion and Electron Conductive Interlayer To Achieve Low Self-Discharge of Lithium-Sulfur Batteries.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	4
11	Ultrathin carbon nanotube-DNA hybrid membrane formation by simple physical adsorption onto a thin alumina substrate. *Nanotechnology*, **2010**, 21, 285601	3.4	3
10	Dendrite-Free Non-Newtonian Semisolid Lithium Metal Anode. *ACS Energy Letters*,3761-3768	20.1	3
9	High-performance lithium-sulfur batteries enabled by regulating LiS deposition. *Physical Chemistry Chemical Physics*, **2021**, 23, 21385-21398	3.6	3
8	Diglyme-based electrolytes boosting high-rate and stable sodium-ion storage for three-dimensional VS4/Reduced graphene oxide hybrid anodes. *Journal of Power Sources*, **2022**, 526, 231098	8.9	2
7	Deeply Cyclable and Ultrahigh-Rate Lithium Metal Anodes Enabled by Coaxial Nanochamber Heterojunction on Carbon Nanofibers. *Advanced Science*, **2021**, 8, e2101940	13.6	2
6	Spatial Degrees of Freedom for MIMO Interference Channel with Local Channel State Information at Transmitters. *Wireless Personal Communications*, **2016**, 89, 639-662	1.9	2
5	Graphene: Self-Assembly of Graphene Oxide at Interfaces (Adv. Mater. 32/2014). *Advanced Materials*, **2014**, 26, 5732-5732	24	1
4	High-density three-dimensional graphene cathode with a tailored pore structure for high volumetric capacity zinc-ion storage. *Carbon*, **2022**, 186, 624-631	10.4	1
3	Regulating the Stable Lithium and Polysulfide Deposition in Batteries by a Gold Nanoparticle Modified Vertical Graphene Host. *Advanced Energy and Sustainability Research*, **2021**, 2, 2100044	1.6	1

2	Regulating Li-ion Flux through a Dense yet Highly Ionic Conductive Interlayer for Stable Li Deposition. *Advanced Materials Interfaces*,2200457	4.6	1
1	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). *Advanced Energy Materials*, **2018**, 8, 1870050	21.8	