Feng Li

List of Publications by Year in Descending Order

269 papers	45,489 citations	90 h-index	212 g-index
284 ext. papers	49,796 ext. citations	12.2 avg, IF	7.8 L-index

#	Paper	IF	Citations
269	Revealing the multiple cathodic and anodic involved charge storage mechanism in an FeSe2 cathode for aluminium-ion batteries by in situ magnetometry. *Energy and Environmental Science*, **2022**, 15, 311-319	35.4	13
268	Sulfur–Carbon Composite Cathodes. *Modern Aspects of Electrochemistry*, **2022**, 19-82		0
267	Ultrastable Interfacial Contacts Enabling Unimpeded Charge Transfer and Ion Diffusion in Flexible Lithium-Ion Batteries.. *Advanced Science*, **2022**, e2105419	13.6	3
266	Recyclable, Self-Healing Solid Polymer Electrolytes by Soy Protein-Based Dynamic Network.. *Advanced Science*, **2022**, e2103623	13.6	4
265	Application and prospects for using carbon materials to modify lithium iron phosphate materials used at low temperatures. *New Carbon Materials*, **2022**, 37, 46-58	4.4	0
264	Stress-assisted design of stiffened graphene electrode structure toward compact energy storage. *Journal of Energy Chemistry*, **2022**, 71, 478-487	12	0
263	In-situ imaging techniques for advanced battery development. *Materials Today*, **2022**,	21.8	1
262	Challenges and development of lithium-ion batteries for low temperature environments. *ETransportation*, **2021**, 100145	12.7	14
261	Renewable biomass-derived carbons for electrochemical capacitor applications. *SusMat*, **2021**, 1, 211-240		32
260	Smart Cells **2021**, 263-300		
259	Tunable Interaction between Metal-Organic Frameworks and Electroactive Components in Lithium–Sulfur Batteries: Status and Perspectives. *Advanced Energy Materials*, **2021**, 11, 2100387	21.8	26
258	Flexible Cells: Materials and Fabrication Technologies **2021**, 95-145		
257	Miniaturized Cells **2021**, 205-262		
256	Architectures Design for Cells with High Energy Density **2021**, 147-203		
255	Flexible Cells: Theory and Characterizations **2021**, 67-93		
254	Challenges and Recent Progress on Silicon-Based Anode Materials for Next-Generation Lithium-Ion Batteries. *Small Structures*, **2021**, 2, 2100009	8.7	36
253	An in-situ solidification strategy to block polysulfides in Lithium-Sulfur batteries. *Energy Storage Materials*, **2021**, 37, 224-232	19.4	22

252	Ion-Dipole Chemistry Drives Rapid Evolution of Li Ions Solvation Sheath in Low-Temperature Li Batteries. *Advanced Energy Materials*, **2021**, 11, 2100935	21.8	38
251	Highly elastic wrinkled structures for stable and low volume-expansion lithium-metal anodes. *Science China Materials*, **2021**, 64, 2675-2682	7.1	2
250	Si/C particles on graphene sheet as stable anode for lithium-ion batteries. *Journal of Materials Science and Technology*, **2021**, 80, 259-265	9.1	12
249	Double Ionic□Electronic Transfer Interface Layers for All-Solid-State Lithium Batteries. *Angewandte Chemie*, **2021**, 133, 18596-18601	3.6	
248	Single-atom catalysts for metal-sulfur batteries: Current progress and future perspectives. *Journal of Energy Chemistry*, **2021**, 54, 452-466	12	28
247	Insights into the deposition chemistry of Li ions in nonaqueous electrolyte for stable Li anodes. *Chemical Society Reviews*, **2021**, 50, 3178-3210	58.5	43
246	Coupling anodic/cathodic energy storage through in situ heterostructure regulation of ordered microporous carbon for sodium-ion hybrid capacitors. *Journal of Materials Chemistry A*, **2021**, 9, 3360-3368	12	5
245	Carbon-coated WS2 nanosheets supported on carbon nanofibers for high-rate potassium-ion capacitors. *Energy and Environmental Science*, **2021**, 14, 3184-3193	35.4	20
244	Progress in the Regulation of Electrode/Electrolyte Interfacial Reactions toward High-voltage Aqueous Hybrid Capacitors. *Batteries and Supercaps*, **2021**, 4, 717-732	5.6	1
243	Double Ionic-Electronic Transfer Interface Layers for All-Solid-State Lithium Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 18448-18453	16.4	8
242	Stress release in high-capacity flexible lithium-ion batteries through nested wrinkle texturing of graphene. *Journal of Energy Chemistry*, **2021**, 61, 243-249	12	6
241	Scalable fabrication of vanadium carbide/graphene electrodes for high-energy and flexible microsupercapacitors. *Carbon*, **2021**, 183, 840-849	10.4	2
240	Extra capacity beyond electrochemistry: electrons storage by spin-polarization. *Science Bulletin*, **2020**, 65, 2038-2039	10.6	2
239	Reliable liquid electrolytes for lithium metal batteries. *Energy Storage Materials*, **2020**, 30, 113-129	19.4	44
238	Fast lithium ion transport in solid polymer electrolytes from polysulfide-bridged copolymers. *Nano Energy*, **2020**, 75, 104976	17.1	11
237	An alternative means of advanced energy storage by electrochemical modification. *JPhys Energy*, **2020**, 2, 021006	4.9	
236	Structure-related electrochemical performance of organosulfur compounds for lithium□sulfur batteries. *Energy and Environmental Science*, **2020**, 13, 1076-1095	35.4	69
235	An Anion-Tuned Solid Electrolyte Interphase with Fast Ion Transfer Kinetics for Stable Lithium Anodes. *Advanced Energy Materials*, **2020**, 10, 1903843	21.8	92

234	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. *Nature Energy*, **2020**, 5, 160-168	62.3	205
233	Bi-Cation Electrolyte for a 1.7 V Aqueous Zn Ion Battery. *ACS Applied Materials & Interfaces*, **2020**, 12, 13790-13796	9.5	32
232	A Nanosheet Array of Cu2Se Intercalation Compound with Expanded Interlayer Space for Sodium Ion Storage. *Advanced Energy Materials*, **2020**, 10, 2000666	21.8	33
231	Efficient polysulfide blocker from conductive niobium nitride@graphene for Li-S batteries. *Journal of Energy Chemistry*, **2020**, 45, 135-141	12	36
230	Binary graphene-based cathode structure for high-performance lithium-sulfur batteries. *JPhys Energy*, **2020**, 2, 015003	4.9	8
229	Reducing the shuttle effect with the interactions of polar TiN and non-polar graphene for lithium–sulfur batteries. *CrystEngComm*, **2020**, 22, 1555-1559	3.3	3
228	All Two-Dimensional Pseudocapacitive Sheet Materials for Flexible Asymmetric Solid-State Planar Microsupercapacitors with High Energy Density. *ACS Nano*, **2020**, 14, 603-610	16.7	33
227	Homogeneous and Fast Ion Conduction of PEO-Based Solid-State Electrolyte at Low Temperature. *Advanced Functional Materials*, **2020**, 30, 2007172	15.6	71
226	An alkali metal–selenium battery with a wide temperature range and low self-discharge. *Journal of Materials Chemistry A*, **2019**, 7, 21774-21782	13	24
225	Micro-Macroscopic Coupled Electrode Architecture for High-Energy-Density Lithium–Sulfur Batteries. *ACS Applied Energy Materials*, **2019**, 2, 7393-7402	6.1	6
224	A salt-derived solid electrolyte interphase by electroreduction of water-in-salt electrolyte for uniform lithium deposition. *Journal of Power Sources*, **2019**, 439, 227073	8.9	11
223	Suppressing lithium dendrite formation by slowing its desolvation kinetics. *Chemical Communications*, **2019**, 55, 13211-13214	5.8	22
222	Die wiederaufladbare Aluminiumbatterie: Möglichkeiten und Herausforderungen. *Angewandte Chemie*, **2019**, 131, 12104-12124	3.6	15
221	The Rechargeable Aluminum Battery: Opportunities and Challenges. *Angewandte Chemie - International Edition*, **2019**, 58, 11978-11996	16.4	168
220	A Desolvated Solid–Solid Interface for a High-Capacitance Electric Double Layer. *Advanced Energy Materials*, **2019**, 9, 1803715	21.8	11
219	Smart Materials and Design toward Safe and Durable Lithium Ion Batteries. *Small Methods*, **2019**, 3, 1900328	12.3	34
218	Confining SnSe nanobelts in 3D rGO aerogel for achieving stable and fast lithium storage. *Materials Research Bulletin*, **2019**, 115, 80-87	5.1	9
217	Hybridization design of materials and devices for flexible electrochemical energy storage. *Energy Storage Materials*, **2019**, 19, 212-241	19.4	114

216	Mitigating self-discharge of carbon-based electrochemical capacitors by modifying their electric-double layer to maximize energy efficiency. *Journal of Energy Chemistry*, **2019**, 38, 214-218	12	20
215	Key Aspects of Lithium Metal Anodes for Lithium Metal Batteries. *Small*, **2019**, 15, e1900687	11	134
214	Exploring reaction dynamics in lithium-sulfur batteries by time-resolved operando sulfur K-edge X-ray absorption spectroscopy. *Chemical Communications*, **2019**, 55, 4993-4996	5.8	6
213	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
212	Electrochemical process of sulfur in carbon materials from electrode thickness to interlayer. *Journal of Energy Chemistry*, **2019**, 31, 119-124	12	34
211	The Regulating Role of Carbon Nanotubes and Graphene in Lithium-Ion and Lithium-Sulfur Batteries. *Advanced Materials*, **2019**, 31, e1800863	24	234
210	Oriented outperforms disorder: Thickness-independent mass transport for lithium-sulfur batteries. *Carbon*, **2019**, 154, 90-97	10.4	10
209	Tunable In Situ Stress and Spontaneous Microwrinkling of Multiscale Heterostructures. *Journal of Physical Chemistry C*, **2019**, 123, 26041-26046	3.8	3
208	Factors of Kinetics Processes in Lithium–Sulfur Reactions. *Energy Technology*, **2019**, 7, 1900574	3.5	9
207	Resorcinol-formaldehyde based carbon aerogel: Preparation, structure and applications in energy storage devices. *Microporous and Mesoporous Materials*, **2019**, 279, 293-315	5.3	39
206	A highly reversible Co3S4 microsphere cathode material for aluminum-ion batteries. *Nano Energy*, **2019**, 56, 100-108	17.1	120
205	Effect of Formation Potentials on Gassing of LiMn2O4//Li4Ti5O12/C Batteries. *Journal of the Electrochemical Society*, **2019**, 166, A5033-A5037	3.9	3
204	From interlayer to lightweight capping layer: Rational design of mesoporous TiO2 threaded with CNTs for advanced Li–S batteries. *Carbon*, **2019**, 143, 523-530	10.4	50
203	Exceptional supercapacitor performance from optimized oxidation of graphene-oxide. *Energy Storage Materials*, **2019**, 17, 12-21	19.4	77
202	Hybrid graphene album with polysulfides adsorption layer for Li-S batteries. *Chemical Engineering Science*, **2019**, 194, 148-155	4.4	10
201	Metal–Organic Frameworks (MOFs)-Derived Nitrogen-Doped Porous Carbon Anchored on Graphene with Multifunctional Effects for Lithium–Sulfur Batteries. *Advanced Functional Materials*, **2018**, 28, 1707592	15.6	198
200	A 3D Multifunctional Architecture for Lithium–Sulfur Batteries with High Areal Capacity. *Small Methods*, **2018**, 2, 1800067	12.8	28
199	Novel Conductive Metal-Organic Framework for a High-Performance Lithium-Sulfur Battery Host: 2D Cu-Benzenehexathial (BHT). *ACS Applied Materials & Interfaces*, **2018**, 10, 15012-15020	9.5	71

198	Heteroatoms dual-doped hierarchical porous carbon-selenium composite for durable Li–Se and Na–Se batteries. *Nano Energy*, **2018**, 49, 137-146	17.1	103
197	An Aluminum–Sulfur Battery with a Fast Kinetic Response. *Angewandte Chemie*, **2018**, 130, 1916-1920	3.6	29
196	An Aluminum-Sulfur Battery with a Fast Kinetic Response. *Angewandte Chemie - International Edition*, **2018**, 57, 1898-1902	16.4	111
195	A Rechargeable Quasi-symmetrical MoS2 Battery. *Joule*, **2018**, 2, 1278-1286	27.8	17
194	Substitutional Carbon-Modified Anatase TiO Decahedral Plates Directly Derived from Titanium Oxalate Crystals via Topotactic Transition. *Advanced Materials*, **2018**, 30, e1705999	24	38
193	A low crystallinity oxygen-vacancy-rich Co3O4 cathode for high-performance flexible asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 16094-16100	13	122
192	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
191	Development of Graphene-based Materials for Lithium-Sulfur Batteries. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2018**, 34, 377-390	3.8	19
190	Polysulfide immobilization and conversion on a conductive polar MoC@MoOx material for lithium-sulfur batteries. *Energy Storage Materials*, **2018**, 10, 56-61	19.4	132
189	Boosting solid-state flexible supercapacitors by employing tailored hierarchical carbon electrodes and a high-voltage organic gel electrolyte. *Journal of Materials Chemistry A*, **2018**, 6, 24979-24987	13	28
188	Paragenesis BN/CNTs hybrid as a monoclinic sulfur host for high rate and ultra-long life lithium–sulfur battery. *Journal of Materials Chemistry A*, **2018**, 6, 24194-24200	13	27
187	Hybrid Solid Polymer Electrolytes with Two-Dimensional Inorganic Nanofillers. *Chemistry - A European Journal*, **2018**, 24, 18180-18203	4.8	19
186	CuS Microspheres with Tunable Interlayer Space and Micropore as a High-Rate and Long-Life Anode for Sodium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1800930	21.8	127
185	Mesoporous TiN microspheres as an efficient polysulfide barrier for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2018**, 6, 14359-14366	13	66
184	Conductive porous vanadium nitride/graphene composite as chemical anchor of polysulfides for lithium-sulfur batteries. *Nature Communications*, **2017**, 8, 14627	17.4	757
183	Charge delivery goes the distance. *Science*, **2017**, 356, 582-583	33.3	71
182	Cationic two-dimensional sheets for an ultralight electrostatic polysulfide trap toward high-performance lithium-sulfur batteries. *Energy Storage Materials*, **2017**, 9, 39-46	19.4	31
181	More Reliable Lithium-Sulfur Batteries: Status, Solutions and Prospects. *Advanced Materials*, **2017**, 29, 1606823	24	1054

180	A Sulfur-Rich Copolymer@CNT Hybrid Cathode with Dual-Confinement of Polysulfides for High-Performance Lithium-Sulfur Batteries. *Advanced Materials*, **2017**, 29, 1603835	24	167
179	Single-wall carbon nanotube network enabled ultrahigh sulfur-content electrodes for high-performance lithium-sulfur batteries. *Nano Energy*, **2017**, 42, 205-214	17.1	140
178	A high tenacity electrode by assembly of a soft sorbent and a hard skeleton for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 22459-22464	13	9
177	Nitrogen-Superdoped 3D Graphene Networks for High-Performance Supercapacitors. *Advanced Materials*, **2017**, 29, 1701677	24	186
176	2D Frameworks of C N and C N as New Anode Materials for Lithium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1702007	24	196
175	Borophene as Efficient Sulfur Hosts for Lithium–Sulfur Batteries: Suppressing Shuttle Effect and Improving Conductivity. *Journal of Physical Chemistry C*, **2017**, 121, 15549-15555	3.8	74
174	Free-standing hybrid film of less defective graphene coated with mesoporous TiO 2 for lithium ion batteries with fast charging/discharging capabilities. *2D Materials*, **2017**, 4, 015011	5.9	13
173	Flexible batteries ahead. *National Science Review*, **2017**, 4, 20-23	10.8	18
172	Two-dimensional layered metal diseleniums and its application in the electrochemical energy. *Chinese Science Bulletin*, **2017**, 62, 3201-3216	2.9	5
171	An integrated electrode/separator with nitrogen and nickel functionalized carbon hybrids for advanced lithium/polysulfide batteries. *Carbon*, **2016**, 109, 719-726	10.4	51
170	Toward More Reliable Lithium-Sulfur Batteries: An All-Graphene Cathode Structure. *ACS Nano*, **2016**, 10, 8676-82	16.7	212
169	Li4Ti5O12on Graphene for High Rate Lithium Ion Batteries. *Journal of the Electrochemical Society*, **2016**, 163, A2951-A2955	3.9	10
168	Elemental superdoping of graphene and carbon nanotubes. *Nature Communications*, **2016**, 7, 10921	17.4	190
167	3D Graphene-Foam-Reduced-Graphene-Oxide Hybrid Nested Hierarchical Networks for High-Performance Li-S Batteries. *Advanced Materials*, **2016**, 28, 1603-9	24	430
166	3D Interconnected Electrode Materials with Ultrahigh Areal Sulfur Loading for Li-S Batteries. *Advanced Materials*, **2016**, 28, 3374-82	24	433
165	Armoring Graphene Cathodes for High-Rate and Long-Life Lithium Ion Supercapacitors. *Advanced Energy Materials*, **2016**, 6, 1502064	21.8	73
164	Electrochemical stability of graphene cathode for high-voltage lithium ion capacitors. *Asia-Pacific Journal of Chemical Engineering*, **2016**, 11, 407-414	1.3	2
163	High Reversible Lithium Storage Capacity and Structural Changes of Fe2O3 Nanoparticles Confined inside Carbon Nanotubes. *Advanced Energy Materials*, **2016**, 6, 1501755	21.8	95

162	The smart era of electrochemical energy storage devices. *Energy Storage Materials*, **2016**, 3, 66-68	19.4	24
161	A trilayer separator with dual function for high performance lithium□sulfur batteries. *Journal of Power Sources*, **2016**, 301, 179-186	8.9	100
160	Carbon materials for Li□S batteries: Functional evolution and performance improvement. *Energy Storage Materials*, **2016**, 2, 76-106	19.4	406
159	Carbon Nanotubes and Graphene for Flexible Electrochemical Energy Storage: from Materials to Devices. *Advanced Materials*, **2016**, 28, 4306-37	24	481
158	3D V3O7□H2O/Partially Exfoliated Carbon Nanotube Composites with Significantly Improved Lithium Storage Ability. *Particle and Particle Systems Characterization*, **2016**, 33, 531-537	3.1	11
157	Stabilizing sulfur cathodes using nitrogen-doped graphene as a chemical immobilizer for Li S batteries. *Carbon*, **2016**, 108, 120-126	10.4	115
156	Scalable Clean Exfoliation of High-Quality Few-Layer Black Phosphorus for a Flexible Lithium Ion Battery. *Advanced Materials*, **2016**, 28, 510-7	24	289
155	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. *Nano Energy*, **2016**, 25, 203-210	17.1	274
154	Kinetically Enhanced Electrochemical Redox of Polysulfides on Polymeric Carbon Nitrides for Improved Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 25193-201	9.5	123
153	Synthesis and Electrochemical Lithium Storage Behavior of Carbon Nanotubes Filled with Iron Sulfide Nanoparticles. *Advanced Science*, **2016**, 3, 1600113	13.6	31
152	In suit growth of ultradispersed NiCo2S4 nanoparticles on graphene for asymmetric supercapacitors. *Electrochimica Acta*, **2015**, 176, 44-50	6.7	89
151	Lithiation of silicon nanoparticles confined in carbon nanotubes. *ACS Nano*, **2015**, 9, 5063-71	16.7	91
150	Graphene for flexible lithium-ion batteries: Applications and prospects. *Chinese Science Bulletin*, **2015**, 60, 630-644	2.9	4
149	Carbon nanotubes/activated carbon hybrid with ultrahigh surface area for electrochemical capacitors. *Electrochimica Acta*, **2015**, 168, 25-31	6.7	32
148	Graphene for Flexible Lithium-Ion Batteries: Development and Prospects **2015**, 119-177		2
147	Metal/Oxide Interface Nanostructures Generated by Surface Segregation for Electrocatalysis. *Nano Letters*, **2015**, 15, 7704-10	11.5	186
146	Ultrasonication-assisted ultrafast preparation of multiwalled carbon nanotubes/Au/Co3O4 tubular hybrids as superior anode materials for oxygen evolution reaction. *Journal of Power Sources*, **2015**, 300, 285-293	8.9	58
145	A smart self-regenerative lithium ion supercapacitor with a real-time safety monitor. *Energy Storage Materials*, **2015**, 1, 146-151	19.4	27

144	Dual Functions of Carbon in Li4Ti5O12/C Microspheres. *Journal of the Electrochemical Society*, **2015**, 162, A3038-A3044	3.9	23
143	A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. *Nano Energy*, **2015**, 11, 356-365	17.1	476
142	A flexible sulfur-graphene-polypropylene separator integrated electrode for advanced Li-S batteries. *Advanced Materials*, **2015**, 27, 641-7	24	466
141	Graphene-based integrated electrodes for flexible lithium ion batteries. *2D Materials*, **2015**, 2, 024004	5.9	37
140	Visible-light photodetector with enhanced performance based on a ZnO@CdS heterostructure. *Journal of Materials Chemistry C*, **2015**, 3, 2231-2236	7.1	35
139	Dispersible percolating carbon nano-electrodes for improvement of polysulfide utilization in Li batteries. *Carbon*, **2015**, 93, 161-168	10.4	19
138	Localized polyselenides in a graphene-coated polymer separator for high rate and ultralong life lithium-selenium batteries. *Chemical Communications*, **2015**, 51, 3667-70	5.8	56
137	Open-pore LiFePO4/C microspheres with high volumetric energy density for lithium ion batteries. *Particuology*, **2015**, 22, 24-29	2.8	19
136	A high-density graphene-sulfur assembly: a promising cathode for compact Li-S batteries. *Nanoscale*, **2015**, 7, 5592-7	7.7	83
135	Progress in flexible lithium batteries and future prospects. *Energy and Environmental Science*, **2014**, 7, 1307-1338	35.4	1103
134	One-pot synthesis of MnOOH nanorods on graphene for asymmetric supercapacitors. *Electrochimica Acta*, **2014**, 127, 200-207	6.7	62
133	Hierarchical Graphene Carbon Fiber Composite Paper as a Flexible Lateral Heat Spreader. *Advanced Functional Materials*, **2014**, 24, 4222-4228	15.6	145
132	A graphene-pure-sulfur sandwich structure for ultrafast, long-life lithium-sulfur batteries. *Advanced Materials*, **2014**, 26, 625-31, 664	24	842
131	Monolithic Fe2O3/graphene hybrid for highly efficient lithium storage and arsenic removal. *Carbon*, **2014**, 67, 500-507	10.4	124
130	Structural changes in iron oxide and gold catalysts during nucleation of carbon nanotubes studied by in situ transmission electron microscopy. *ACS Nano*, **2014**, 8, 292-301	16.7	42
129	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
128	Visualizing the roles of graphene for excellent lithium storage. *Journal of Materials Chemistry A*, **2014**, 2, 17808-17814	13	44
127	Tin quantum dots embedded in nitrogen-doped carbon nanofibers as excellent anode for lithium-ion batteries. *Nano Energy*, **2014**, 9, 61-70	17.1	111

126	An aqueous dissolved polysulfide cathode for lithium–sulfur batteries. *Energy and Environmental Science*, **2014**, 7, 3307-3312	35.4	113
125	Catalytic applications of layered double hydroxides: recent advances and perspectives. *Chemical Society Reviews*, **2014**, 43, 7040-66	58.5	1059
124	Facile synthesis and enhanced catalytic performance of graphene-supported Ni nanocatalyst from a layered double hydroxide-based composite precursor. *Journal of Materials Chemistry A*, **2014**, 2, 7880	13	76
123	Carbon nanotube-modified LiFePO4 for high rate lithium ion batteries. *New Carbon Materials*, **2014**, 29, 287-294	4.4	23
122	The dependence of SO3 dissociation on the diameter of single-wall carbon nanotubes based on first-principles calculations. *Chemical Physics Letters*, **2014**, 608, 1-5	2.5	4
121	Co3O4 mesoporous nanostructures@graphene membrane as an integrated anode for long-life lithium-ion batteries. *Journal of Power Sources*, **2014**, 255, 52-58	8.9	92
120	Lithium Storage Characteristics and Possible Applications of Graphene Materials. *Acta Chimica Sinica*, **2014**, 72, 333	3.3	5
119	TiO2/graphene sandwich paper as an anisotropic electrode for high rate lithium ion batteries. *Nanoscale*, **2013**, 5, 7780-4	7.7	62
118	The examination of graphene oxide for rechargeable lithium storage as a novel cathode material. *Journal of Materials Chemistry A*, **2013**, 1, 3607	13	61
117	Effects of oxygen vacancies on the electrochemical performance of tin oxide. *Journal of Materials Chemistry A*, **2013**, 1, 1536-1539	13	101
116	Nanosize SnO□ confined in the porous shells of carbon cages for kinetically efficient and long-term lithium storage. *Nanoscale*, **2013**, 5, 1576-82	7.7	68
115	Controlled electrochemical charge injection to maximize the energy density of supercapacitors. *Angewandte Chemie - International Edition*, **2013**, 52, 3722-5	16.4	142
114	Octahedral Co3O4 particles threaded by carbon nanotube arrays as integrated structure anodes for lithium ion batteries. *Physical Chemistry Chemical Physics*, **2013**, 15, 5582-7	3.6	46
113	A Self-Standing and Flexible Electrode of Li4Ti5O12 Nanosheets with a N-Doped Carbon Coating for High Rate Lithium Ion Batteries. *Advanced Functional Materials*, **2013**, 23, 5429-5435	15.6	122
112	High-rate lithium storage of anatase TiO2 crystals doped with both nitrogen and sulfur. *Chemical Communications*, **2013**, 49, 3461-3	5.8	75
111	Carbon–sulfur composites for Li–S batteries: status and prospects. *Journal of Materials Chemistry A*, **2013**, 1, 9382	13	664
110	Fibrous hybrid of graphene and sulfur nanocrystals for high-performance lithium-sulfur batteries. *ACS Nano*, **2013**, 7, 5367-75	16.7	670
109	Controlled Electrochemical Charge Injection to Maximize the Energy Density of Supercapacitors. *Angewandte Chemie*, **2013**, 125, 3810-3813	3.6	23

108	A microporous-mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Li-S batteries. *Physical Chemistry Chemical Physics*, **2012**, 14, 8703-10	3.6	258
107	Plum-like and octahedral Co3O4 single crystals on and around carbon nanotubes: large scale synthesis and formation mechanism. *RSC Advances*, **2012**, 2, 3496	3.7	22
106	A nanosized Fe2O3 decorated single-walled carbon nanotube membrane as a high-performance flexible anode for lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 17942		143
105	Flexible graphene-based lithium ion batteries with ultrafast charge and discharge rates. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 17360-5	11.5	653
104	Graphene/metal oxide composite electrode materials for energy storage. *Nano Energy*, **2012**, 1, 107-131	17.1	1507
103	Free-standing and porous hierarchical nanoarchitectures constructed with cobalt cobaltite nanowalls for supercapacitors with high specific capacitances. *Journal of Power Sources*, **2012**, 219, 140-146	8.9	82
102	Oxygen Deficient Li4Ti5O12 for High-rate Lithium Storage. *Journal of the Chinese Chemical Society*, **2012**, 59, 1201-1205	1.5	8
101	Improved electrochemical performance of Fe2O3 nanoparticles confined in carbon nanotubes. *Journal of Materials Chemistry*, **2012**, 22, 13756		128
100	Oxygen bridges between NiO nanosheets and graphene for improvement of lithium storage. *ACS Nano*, **2012**, 6, 3214-23	16.7	866
99	Heteroepitaxial growth of single-walled carbon nanotubes from boron nitride. *Scientific Reports*, **2012**, 2, 971	4.9	14
98	A flexible nanostructured sulphur–carbon nanotube cathode with high rate performance for Li-S batteries. *Energy and Environmental Science*, **2012**, 5, 8901	35.4	422
97	A LiF Nanoparticle-Modified Graphene Electrode for High-Power and High-Energy Lithium Ion Batteries. *Advanced Functional Materials*, **2012**, 22, 3290-3297	15.6	60
96	Hollow carbon cage with nanocapsules of graphitic shell/nickel core as an anode material for high rate lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 11252		64
95	3D Hierarchical Co3O4 Twin-Spheres with an Urchin-Like Structure: Large-Scale Synthesis, Multistep-Splitting Growth, and Electrochemical Pseudocapacitors. *Advanced Functional Materials*, **2012**, 22, 4052-4059	15.6	273
94	Nitrogen-doped carbon monolith for alkaline supercapacitors and understanding nitrogen-induced redox transitions. *Chemistry - A European Journal*, **2012**, 18, 5345-51	4.8	317
93	Bulk synthesis of large diameter semiconducting single-walled carbon nanotubes by oxygen-assisted floating catalyst chemical vapor deposition. *Journal of the American Chemical Society*, **2011**, 133, 5232-5	16.4	118
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