

Feng Li

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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	Advanced materials for energy storage. <i>Advanced Materials</i> , 2010 , 22, E28-62	24	3687
268	Graphene anchored with Co_3O_4 nanoparticles as anode of lithium ion batteries with enhanced reversible capacity and cyclic performance. <i>ACS Nano</i> , 2010 , 4, 3187-94	16.7	2201
267	Doped graphene sheets as anode materials with superhigh rate and large capacity for lithium ion batteries. <i>ACS Nano</i> , 2011 , 5, 5463-71	16.7	1700
266	Graphene-Wrapped Fe_3O_4 Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2010 , 22, 5306-5313	9.6	1660
265	3D aperiodic hierarchical porous graphitic carbon material for high-rate electrochemical capacitive energy storage. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 373-6	16.4	1604
264	Graphene/metal oxide composite electrode materials for energy storage. <i>Nano Energy</i> , 2012 , 1, 107-131	17.1	1507
263	Fabrication of Graphene/Polyaniline Composite Paper via In Situ Anodic Electropolymerization for High-Performance Flexible Electrode. <i>ACS Nano</i> , 2009 , 3, 1745-52	16.7	1355
262	High-energy MnO_2 nanowire/graphene and graphene asymmetric electrochemical capacitors. <i>ACS Nano</i> , 2010 , 4, 5835-42	16.7	1331
261	Progress in flexible lithium batteries and future prospects. <i>Energy and Environmental Science</i> , 2014 , 7, 1307-1338	35.4	1103
260	Catalytic applications of layered double hydroxides: recent advances and perspectives. <i>Chemical Society Reviews</i> , 2014 , 43, 7040-66	58.5	1059
259	More Reliable Lithium-Sulfur Batteries: Status, Solutions and Prospects. <i>Advanced Materials</i> , 2017 , 29, 1606823	24	1054
258	Anchoring Hydrous RuO_2 on Graphene Sheets for High-Performance Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2010 , 20, 3595-3602	15.6	1033
257	Oxygen bridges between NiO nanosheets and graphene for improvement of lithium storage. <i>ACS Nano</i> , 2012 , 6, 3214-23	16.7	866
256	A graphene-pure-sulfur sandwich structure for ultrafast, long-life lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 625-31, 664	24	842
255	Conductive porous vanadium nitride/graphene composite as chemical anchor of polysulfides for lithium-sulfur batteries. <i>Nature Communications</i> , 2017 , 8, 14627	17.4	757
254	Graphene/Cellulose Paper Flexible Supercapacitors. <i>Advanced Energy Materials</i> , 2011 , 1, 917-922	21.8	745
253	Fibrous hybrid of graphene and sulfur nanocrystals for high-performance lithium-sulfur batteries. <i>ACS Nano</i> , 2013 , 7, 5367-75	16.7	670

252	Carbon-sulfur composites for Li-S batteries: status and prospects. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9382	13	664
251	Flexible graphene-based lithium ion batteries with ultrafast charge and discharge rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17360-5	11.5	653
250	Field Emission of Single-Layer Graphene Films Prepared by Electrophoretic Deposition. <i>Advanced Materials</i> , 2009 , 21, 1756-1760	24	562
249	Battery Performance and Photocatalytic Activity of Mesoporous Anatase TiO ₂ Nanospheres/Graphene Composites by Template-Free Self-Assembly. <i>Advanced Functional Materials</i> , 2011 , 21, 1717-1722	15.6	558
248	Carbon Nanotubes and Graphene for Flexible Electrochemical Energy Storage: from Materials to Devices. <i>Advanced Materials</i> , 2016 , 28, 4306-37	24	481
247	A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. <i>Nano Energy</i> , 2015 , 11, 356-365	17.1	476
246	A flexible sulfur-graphene-polypropylene separator integrated electrode for advanced Li-S batteries. <i>Advanced Materials</i> , 2015 , 27, 641-7	24	466
245	Synergistic effects of B/N doping on the visible-light photocatalytic activity of mesoporous TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4516-20	16.4	456
244	Synthesis and Electrochemical Property of Boron-Doped Mesoporous Carbon in Supercapacitor. <i>Chemistry of Materials</i> , 2008 , 20, 7195-7200	9.6	451
243	3D Aperiodic Hierarchical Porous Graphitic Carbon Material for High-Rate Electrochemical Capacitive Energy Storage. <i>Angewandte Chemie</i> , 2008 , 120, 379-382	3.6	441
242	3D Interconnected Electrode Materials with Ultrahigh Areal Sulfur Loading for Li-S Batteries. <i>Advanced Materials</i> , 2016 , 28, 3374-82	24	433
241	Enhanced photocatalytic hydrogen evolution by prolonging the lifetime of carriers in ZnO/CdS heterostructures. <i>Chemical Communications</i> , 2009 , 3452-4	5.8	433
240	3D Graphene-Foam-Reduced-Graphene-Oxide Hybrid Nested Hierarchical Networks for High-Performance Li-S Batteries. <i>Advanced Materials</i> , 2016 , 28, 1603-9	24	430
239	A flexible nanostructured sulphur-carbon nanotube cathode with high rate performance for Li-S batteries. <i>Energy and Environmental Science</i> , 2012 , 5, 8901	35.4	422
238	Carbon materials for Li-S batteries: Functional evolution and performance improvement. <i>Energy Storage Materials</i> , 2016 , 2, 76-106	19.4	406
237	Hierarchical porous nickel oxide and carbon as electrode materials for asymmetric supercapacitor. <i>Journal of Power Sources</i> , 2008 , 185, 1563-1568	8.9	398
236	Preparation of capacitor electrode from sunflower seed shell. <i>Bioresource Technology</i> , 2011 , 102, 1118-23	23	330
235	Nitrogen-doped carbon monolith for alkaline supercapacitors and understanding nitrogen-induced redox transitions. <i>Chemistry - A European Journal</i> , 2012 , 18, 5345-51	4.8	317

234	Synthesis and electrochemical properties of mesoporous nickel oxide. <i>Journal of Power Sources</i> , 2004 , 134, 324-330	8.9	293
233	Scalable Clean Exfoliation of High-Quality Few-Layer Black Phosphorus for a Flexible Lithium Ion Battery. <i>Advanced Materials</i> , 2016 , 28, 510-7	24	289
232	Nanosized Li ₄ Ti ₅ O ₁₂ /graphene hybrid materials with low polarization for high rate lithium ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 8610-8617	8.9	277
231	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. <i>Nano Energy</i> , 2016 , 25, 203-210	17.1	274
230	3D Hierarchical Co ₃ O ₄ Twin-Spheres with an Urchin-Like Structure: Large-Scale Synthesis, Multistep-Splitting Growth, and Electrochemical Pseudocapacitors. <i>Advanced Functional Materials</i> , 2012 , 22, 4052-4059	15.6	273
229	A microporous-mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Li-S batteries. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8703-10	3.6	258
228	The Regulating Role of Carbon Nanotubes and Graphene in Lithium-Ion and Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1800863	24	234
227	Visible light photocatalyst: iodine-doped mesoporous titania with a bicrystalline framework. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 20823-8	3.4	220
226	Toward More Reliable Lithium-Sulfur Batteries: An All-Graphene Cathode Structure. <i>ACS Nano</i> , 2016 , 10, 8676-82	16.7	212
225	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. <i>Nature Energy</i> , 2020 , 5, 160-168	62.3	205
224	Fast ion transport and high capacitance of polystyrene-based hierarchical porous carbon electrode material for supercapacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1970-1976		202
223	Metal-Organic Frameworks (MOFs)-Derived Nitrogen-Doped Porous Carbon Anchored on Graphene with Multifunctional Effects for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707592	15.6	198
222	2D Frameworks of C ₃ N and C ₄ N as New Anode Materials for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702007	24	196
221	Elemental superdoping of graphene and carbon nanotubes. <i>Nature Communications</i> , 2016 , 7, 10921	17.4	190
220	Metal/Oxide Interface Nanostructures Generated by Surface Segregation for Electrocatalysis. <i>Nano Letters</i> , 2015 , 15, 7704-10	11.5	186
219	Nitrogen-Superdoped 3D Graphene Networks for High-Performance Supercapacitors. <i>Advanced Materials</i> , 2017 , 29, 1701677	24	186
218	Novel boron nitride hollow nanoribbons. <i>ACS Nano</i> , 2008 , 2, 2183-91	16.7	173
217	Comparison of the rate capability of nanostructured amorphous and anatase TiO ₂ for lithium insertion using anodic TiO ₂ nanotube arrays. <i>Nanotechnology</i> , 2009 , 20, 225701	3.4	172

216	The Rechargeable Aluminum Battery: Opportunities and Challenges. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11978-11996	16.4	168
215	A Sulfur-Rich Copolymer@CNT Hybrid Cathode with Dual-Confinement of Polysulfides for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1603835	24	167
214	Hierarchical Graphene/Carbon Fiber Composite Paper as a Flexible Lateral Heat Spreader. <i>Advanced Functional Materials</i> , 2014 , 24, 4222-4228	15.6	145
213	A nanosized Fe ₂ O ₃ decorated single-walled carbon nanotube membrane as a high-performance flexible anode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17942		143
212	Electrochemical interfacial capacitance in multilayer graphene sheets: Dependence on number of stacking layers. <i>Electrochemistry Communications</i> , 2009 , 11, 1729-1732	5.1	143
211	Controlled electrochemical charge injection to maximize the energy density of supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3722-5	16.4	142
210	Single-wall carbon nanotube network enabled ultrahigh sulfur-content electrodes for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2017 , 42, 205-214	17.1	140
209	Effect of pore packing defects in 2-d ordered mesoporous carbons on ionic transport. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8570-5	3.4	135
208	Key Aspects of Lithium Metal Anodes for Lithium Metal Batteries. <i>Small</i> , 2019 , 15, e1900687	11	134
207	Polysulfide immobilization and conversion on a conductive polar MoC@MoO _x material for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018 , 10, 56-61	19.4	132
206	Improved electrochemical performance of Fe ₂ O ₃ nanoparticles confined in carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13756		128
205	CuS Microspheres with Tunable Interlayer Space and Micropore as a High-Rate and Long-Life Anode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1800930	21.8	127
204	Morphology, diameter distribution and Raman scattering measurements of double-walled carbon nanotubes synthesized by catalytic decomposition of methane. <i>Chemical Physics Letters</i> , 2002 , 359, 196-202	2.5	125
203	Monolithic Fe ₂ O ₃ /graphene hybrid for highly efficient lithium storage and arsenic removal. <i>Carbon</i> , 2014 , 67, 500-507	10.4	124
202	Kinetically Enhanced Electrochemical Redox of Polysulfides on Polymeric Carbon Nitrides for Improved Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25193-201	9.5	123
201	A low crystallinity oxygen-vacancy-rich Co ₃ O ₄ cathode for high-performance flexible asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16094-16100	13	122
200	A Self-Standing and Flexible Electrode of Li ₄ Ti ₅ O ₁₂ Nanosheets with a N-Doped Carbon Coating for High Rate Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 5429-5435	15.6	122
199	A highly reversible Co ₃ S ₄ microsphere cathode material for aluminum-ion batteries. <i>Nano Energy</i> , 2019 , 56, 100-108	17.1	120

198	Bulk synthesis of large diameter semiconducting single-walled carbon nanotubes by oxygen-assisted floating catalyst chemical vapor deposition. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5232-5	16.4	118
197	Nano-sized cobalt oxide/mesoporous carbon sphere composites as negative electrode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2008 , 53, 6497-6503	6.7	116
196	Stabilizing sulfur cathodes using nitrogen-doped graphene as a chemical immobilizer for Li S batteries. <i>Carbon</i> , 2016 , 108, 120-126	10.4	115
195	Hybridization design of materials and devices for flexible electrochemical energy storage. <i>Energy Storage Materials</i> , 2019 , 19, 212-241	19.4	114
194	An aqueous dissolved polysulfide cathode for lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 3307-3312	35.4	113
193	An Aluminum-Sulfur Battery with a Fast Kinetic Response. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1898-1902	16.4	111
192	Tin quantum dots embedded in nitrogen-doped carbon nanofibers as excellent anode for lithium-ion batteries. <i>Nano Energy</i> , 2014 , 9, 61-70	17.1	111
191	Importance of oxygen in the metal-free catalytic growth of single-walled carbon nanotubes from SiO(x) by a vapor-solid-solid mechanism. <i>Journal of the American Chemical Society</i> , 2011 , 133, 197-9	16.4	110
190	Preparation and electrochemical property of Fe ₂ O ₃ nanoparticles-filled carbon nanotubes. <i>Chemical Communications</i> , 2010 , 46, 8576-8	5.8	108
189	Heteroatoms dual-doped hierarchical porous carbon-selenium composite for durable LiSe and NaSe batteries. <i>Nano Energy</i> , 2018 , 49, 137-146	17.1	103
188	Effects of oxygen vacancies on the electrochemical performance of tin oxide. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1536-1539	13	101
187	A trilayer separator with dual function for high performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016 , 301, 179-186	8.9	100
186	High Reversible Lithium Storage Capacity and Structural Changes of Fe ₂ O ₃ Nanoparticles Confined inside Carbon Nanotubes. <i>Advanced Energy Materials</i> , 2016 , 6, 1501755	21.8	95
185	An Anion-Tuned Solid Electrolyte Interphase with Fast Ion Transfer Kinetics for Stable Lithium Anodes. <i>Advanced Energy Materials</i> , 2020 , 10, 1903843	21.8	92
184	Co ₃ O ₄ mesoporous nanostructures@graphene membrane as an integrated anode for long-life lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 255, 52-58	8.9	92
183	Lithiation of silicon nanoparticles confined in carbon nanotubes. <i>ACS Nano</i> , 2015 , 9, 5063-71	16.7	91
182	Aligned Titania Nanotubes as an Intercalation Anode Material for Hybrid Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2008 , 18, 3787-3793	15.6	91
181	Electrochemical performance of pyrolytic carbon-coated natural graphite spheres. <i>Carbon</i> , 2006 , 44, 2212-2218	10.4	91

180	The effect of carbonyl, carboxyl and hydroxyl groups on the capacitance of carbon nanotubes. <i>New Carbon Materials</i> , 2011 , 26, 224-228	4.4	90
179	Carbon-nanotube-array double helices. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3642-5	16.4	90
178	Mesopore-Aspect-Ratio Dependence of Ion Transport in Rodtype Ordered Mesoporous Carbon. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9950-9955	3.8	90
177	In situ growth of ultradispersed NiCo ₂ S ₄ nanoparticles on graphene for asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2015 , 176, 44-50	6.7	89
176	Improved capacitance of SBA-15 templated mesoporous carbons after modification with nitric acid oxidation. <i>New Carbon Materials</i> , 2007 , 22, 307-314	4.4	87
175	Hierarchical porous carbons: design, preparation, and performance in energy storage. <i>New Carbon Materials</i> , 2011 , 26, 171-179	4.4	86
174	A high-density graphene-sulfur assembly: a promising cathode for compact Li-S batteries. <i>Nanoscale</i> , 2015 , 7, 5592-7	7.7	83
173	Free-standing and porous hierarchical nanoarchitectures constructed with cobalt cobaltite nanowalls for supercapacitors with high specific capacitances. <i>Journal of Power Sources</i> , 2012 , 219, 140-146	8.9	82
172	New insight into the solid electrolyte interphase with use of a focused ion beam. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22205-11	3.4	77
171	Exceptional supercapacitor performance from optimized oxidation of graphene-oxide. <i>Energy Storage Materials</i> , 2019 , 17, 12-21	19.4	77
170	Facile synthesis and enhanced catalytic performance of graphene-supported Ni nanocatalyst from a layered double hydroxide-based composite precursor. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7880	13	76
169	High-rate lithium storage of anatase TiO ₂ crystals doped with both nitrogen and sulfur. <i>Chemical Communications</i> , 2013 , 49, 3461-3	5.8	75
168	Diameter-selective growth of single-walled carbon nanotubes with high quality by floating catalyst method. <i>ACS Nano</i> , 2008 , 2, 1722-8	16.7	75
167	Borophene as Efficient Sulfur Hosts for Lithium-Sulfur Batteries: Suppressing Shuttle Effect and Improving Conductivity. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15549-15555	3.8	74
166	Armoring Graphene Cathodes for High-Rate and Long-Life Lithium Ion Supercapacitors. <i>Advanced Energy Materials</i> , 2016 , 6, 1502064	21.8	73
165	Single-walled carbon nanotubes modified by electrochemical treatment for application in electrochemical capacitors. <i>Journal of Power Sources</i> , 2006 , 160, 758-761	8.9	73
164	Charge delivery goes the distance. <i>Science</i> , 2017 , 356, 582-583	33.3	71
163	Novel Conductive Metal-Organic Framework for a High-Performance Lithium-Sulfur Battery Host: 2D Cu-Benzenehexathial (BHT). <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15012-15020	9.5	71

162	Homogeneous and Fast Ion Conduction of PEO-Based Solid-State Electrolyte at Low Temperature. <i>Advanced Functional Materials</i> , 2020 , 30, 2007172	15.6	71
161	Structure-related electrochemical performance of organosulfur compounds for lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 1076-1095	35.4	69
160	Nanosize SnO ₂ confined in the porous shells of carbon cages for kinetically efficient and long-term lithium storage. <i>Nanoscale</i> , 2013 , 5, 1576-82	7.7	68
159	Preparation, morphology, and microstructure of diameter-controllable vapor-grown carbon nanofibers. <i>Journal of Materials Research</i> , 1998 , 13, 2342-2346	2.5	67
158	Mesoporous TiN microspheres as an efficient polysulfide barrier for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14359-14366	13	66
157	Hollow carbon cage with nanocapsules of graphitic shell/nickel core as an anode material for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11252		64
156	Synthesis of different magnetic carbon nanostructures by the pyrolysis of ferrocene at different sublimation temperatures. <i>Carbon</i> , 2008 , 46, 1892-1902	10.4	63
155	One-pot synthesis of MnOOH nanorods on graphene for asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2014 , 127, 200-207	6.7	62
154	TiO ₂ /graphene sandwich paper as an anisotropic electrode for high rate lithium ion batteries. <i>Nanoscale</i> , 2013 , 5, 7780-4	7.7	62
153	Tailoring Microstructure of Graphene-Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. <i>Advanced Functional Materials</i> , 2014 , 24, 3456-3463	15.6	61
152	The examination of graphene oxide for rechargeable lithium storage as a novel cathode material. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3607	13	61
151	A LiF Nanoparticle-Modified Graphene Electrode for High-Power and High-Energy Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2012 , 22, 3290-3297	15.6	60
150	Synthesis and characterization of double-walled carbon nanotubes from multi-walled carbon nanotubes by hydrogen-arc discharge. <i>Carbon</i> , 2005 , 43, 623-629	10.4	60
149	Synthesis and photoluminescence of tetrapod ZnO nanostructures. <i>Chemical Physics Letters</i> , 2007 , 434, 301-305	2.5	59
148	Urchin-like nano/micro hybrid anode materials for lithium ion battery. <i>Carbon</i> , 2006 , 44, 2778-2784	10.4	59
147	Influence of ferrocene/benzene mole ratio on the synthesis of carbon nanostructures. <i>Chemical Physics Letters</i> , 2003 , 376, 83-89	2.5	59
146	Ultrasonication-assisted ultrafast preparation of multiwalled carbon nanotubes/Au/Co ₃ O ₄ tubular hybrids as superior anode materials for oxygen evolution reaction. <i>Journal of Power Sources</i> , 2015 , 300, 285-293	8.9	58
145	Efficient and stable photocatalytic H ₂ evolution from water splitting by (Cd _{0.8} Zn _{0.2})S nanorods. <i>Electrochemistry Communications</i> , 2009 , 11, 1174-1178	5.1	58

144	The effect of sulfur on the structure of carbon nanotubes produced by a floating catalyst method. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1339-45	1.3	58
143	Localized polyselenides in a graphene-coated polymer separator for high rate and ultralong life lithium-selenium batteries. <i>Chemical Communications</i> , 2015 , 51, 3667-70	5.8	56
142	Silicon-induced oriented ZnS nanobelts for hydrogen sensitivity. <i>Nanotechnology</i> , 2008 , 19, 055710	3.4	56
141	Direct synthesis of carbon nanotubes decorated with size-controllable Fe nanoparticles encapsulated by graphitic layers. <i>Carbon</i> , 2008 , 46, 1417-1423	10.4	54
140	Semiconducting properties of cup-stacked carbon nanotubes. <i>Carbon</i> , 2009 , 47, 731-736	10.4	52
139	The role of NH ₃ atmosphere in preparing nitrogen-doped TiO ₂ by mechanochemical reaction. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 331-335	3.3	52
138	An integrated electrode/separator with nitrogen and nickel functionalized carbon hybrids for advanced lithium/polysulfide batteries. <i>Carbon</i> , 2016 , 109, 719-726	10.4	51
137	Preparation of single-crystal MnO ₂ nanorods and nanoneedles from aqueous solution. <i>Journal of Alloys and Compounds</i> , 2005 , 397, 282-285	5.7	50
136	From interlayer to lightweight capping layer: Rational design of mesoporous TiO ₂ threaded with CNTs for advanced LIB batteries. <i>Carbon</i> , 2019 , 143, 523-530	10.4	50
135	3D Aperiodic Hierarchical Porous Graphitic Carbon Material for High-Rate Electrochemical Capacitive Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1525-1525	16.4	48
134	Growth, Cathodoluminescence and Field Emission of ZnS Tetrapod Tree-like Heterostructures. <i>Advanced Functional Materials</i> , 2008 , 18, 3063-3069	15.6	47
133	Octahedral Co ₃ O ₄ particles threaded by carbon nanotube arrays as integrated structure anodes for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5582-7	3.6	46
132	Selective removal of metallic single-walled carbon nanotubes by combined in situ and post-synthesis oxidation. <i>Carbon</i> , 2010 , 48, 2941-2947	10.4	46
131	Reliable liquid electrolytes for lithium metal batteries. <i>Energy Storage Materials</i> , 2020 , 30, 113-129	19.4	44
130	Visualizing the roles of graphene for excellent lithium storage. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17808-17814	13	44
129	Synthesis and High Thermal Stability of Double-Walled Carbon Nanotubes Using Nickel Formate Dihydrate as Catalyst Precursor. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5006-5013	3.8	44
128	Insights into the deposition chemistry of Li ions in nonaqueous electrolyte for stable Li anodes. <i>Chemical Society Reviews</i> , 2021 , 50, 3178-3210	58.5	43
127	Structural changes in iron oxide and gold catalysts during nucleation of carbon nanotubes studied by in situ transmission electron microscopy. <i>ACS Nano</i> , 2014 , 8, 292-301	16.7	42

126	Field Emission and Cathodoluminescence of ZnS Hexagonal Pyramids of Zinc Blende Structured Single Crystals. <i>Advanced Functional Materials</i> , 2009 , 19, 484-490	15.6	42
125	Synthesis of Tin (II or IV) Oxide Coated Multiwall Carbon Nanotubes with Controlled Morphology. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5790-5794	3.8	42
124	Evidence for, and an understanding of, the initial nucleation of carbon nanotubes produced by a floating catalyst method. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16941-6	3.4	40
123	Necklace-like MoC sulfiphilic sites embedded in interconnected carbon networks for LiB batteries with high sulfur loading. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11298-11304	13	39
122	Resonantly enhanced Raman scattering and high-order Raman spectra of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 1999 , 75, 1524-1526	3.4	39
121	Resorcinol-formaldehyde based carbon aerogel: Preparation, structure and applications in energy storage devices. <i>Microporous and Mesoporous Materials</i> , 2019 , 279, 293-315	5.3	39
120	Substitutional Carbon-Modified Anatase TiO Decahedral Plates Directly Derived from Titanium Oxalate Crystals via Topotactic Transition. <i>Advanced Materials</i> , 2018 , 30, e1705999	24	38
119	In situ assembly of multi-sheeted buckybooks from single-walled carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 707-13	16.7	38
118	Ion-Dipole Chemistry Drives Rapid Evolution of Li Ions Solvation Sheath in Low-Temperature Li Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100935	21.8	38
117	Graphene-based integrated electrodes for flexible lithium ion batteries. <i>2D Materials</i> , 2015 , 2, 024004	5.9	37
116	Self-assembly and cathodoluminescence of microbelts from Cu-doped boron nitride nanotubes. <i>ACS Nano</i> , 2008 , 2, 1523-32	16.7	36
115	Efficient polysulfide blocker from conductive niobium nitride@graphene for Li-S batteries. <i>Journal of Energy Chemistry</i> , 2020 , 45, 135-141	12	36
114	Challenges and Recent Progress on Silicon-Based Anode Materials for Next-Generation Lithium-Ion Batteries. <i>Small Structures</i> , 2021 , 2, 2100009	8.7	36
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