Feng Li

List of Publications by Year
in descending order

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266	54,013	2311 98	1152 229
papers	citations	h-index	g-index

284	284	284	38949
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advanced Materials for Energy Storage. Advanced Materials, 2010, 22, E28-62.	11.1	4,168
2	Graphene Anchored with Co₃O₄ Nanoparticles as Anode of Lithium Ion Batteries with Enhanced Reversible Capacity and Cyclic Performance. ACS Nano, 2010, 4, 3187-3194.	7.3	2,358
3	Doped Graphene Sheets As Anode Materials with Superhigh Rate and Large Capacity for Lithium Ion Batteries. ACS Nano, 2011, 5, 5463-5471.	7.3	1,904
4	Graphene-Wrapped Fe₃O₄ Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. Chemistry of Materials, 2010, 22, 5306-5313.	3.2	1,773
5	3D Aperiodic Hierarchical Porous Graphitic Carbon Material for Highâ€Rate Electrochemical Capacitive Energy Storage. Angewandte Chemie - International Edition, 2008, 47, 373-376.	7.2	1,747
6	Graphene/metal oxide composite electrode materials for energy storage. Nano Energy, 2012, 1, 107-131.	8.2	1,669
7	Fabrication of Graphene/Polyaniline Composite Paper via In Situ Anodic Electropolymerization for High-Performance Flexible Electrode. ACS Nano, 2009, 3, 1745-1752.	7.3	1,464
8	High-Energy MnO₂ Nanowire/Graphene and Graphene Asymmetric Electrochemical Capacitors. ACS Nano, 2010, 4, 5835-5842.	7.3	1,448
9	More Reliable Lithiumâ€Sulfur Batteries: Status, Solutions and Prospects. Advanced Materials, 2017, 29, 1606823.	11.1	1,414
10	Catalytic applications of layered double hydroxides: recent advances and perspectives. Chemical Society Reviews, 2014, 43, 7040-7066.	18.7	1,381
11	Progress in flexible lithium batteries and future prospects. Energy and Environmental Science, 2014, 7, 1307-1338.	15.6	1,312
12	Anchoring Hydrous RuO₂ on Graphene Sheets for Highâ€Performance Electrochemical Capacitors. Advanced Functional Materials, 2010, 20, 3595-3602.	7.8	1,122
13	Oxygen Bridges between NiO Nanosheets and Graphene for Improvement of Lithium Storage. ACS Nano, 2012, 6, 3214-3223.	7.3	977
14	Conductive porous vanadium nitride/graphene composite as chemical anchor of polysulfides for lithium-sulfur batteries. Nature Communications, 2017, 8, 14627.	5.8	912
15	A Grapheneâ€“Pureâ€Sulfur Sandwich Structure for Ultrafast, Longâ€Life Lithiumâ€“Sulfur Batteries. Advanced Materials, 2014, 26, 625-631.	11.1	908
16	Grapheneâ€“Cellulose Paper Flexible Supercapacitors. Advanced Energy Materials, 2011, 1, 917-922.	10.2	831
17	Carbonâ€“sulfur composites for Liâ€“S batteries: status and prospects. Journal of Materials Chemistry A, 2013, 1, 9382.	5.2	757
18	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, 17360-17365.	3.3	728

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19	Fibrous Hybrid of Graphene and Sulfur Nanocrystals for High-Performance Lithiumâ€“Sulfur Batteries. ACS Nano, 2013, 7, 5367-5375.	7.3	722
20	Field Emission of Singleâ€Layer Graphene Films Prepared by Electrophoretic Deposition. Advanced Materials, 2009, 21, 1756-1760.	11.1	624
21	Battery Performance and Photocatalytic Activity of Mesoporous Anatase TiO₂ Nanospheres/Graphene Composites by Templateâ€Free Selfâ€Assembly. Advanced Functional Materials, 2011, 21, 1717-1722.	7.8	601
22	Carbon Nanotubes and Graphene for Flexible Electrochemical Energy Storage: from Materials to Devices. Advanced Materials, 2016, 28, 4306-4337.	11.1	595
23	A Flexible Sulfurâ€Grapheneâ€Polypropylene Separator Integrated Electrode for Advanced Liâ€“S Batteries. Advanced Materials, 2015, 27, 641-647.	11.1	545
24	A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. Nano Energy, 2015, 11, 356-365.	8.2	526
25	Synthesis and Electrochemical Property of Boron-Doped Mesoporous Carbon in Supercapacitor. Chemistry of Materials, 2008, 20, 7195-7200.	3.2	511
26	Carbon materials for Liâ€“S batteries: Functional evolution and performance improvement. Energy Storage Materials, 2016, 2, 76-106.	9.5	504
27	3D Grapheneâ€Foamâ€“Reducedâ€Grapheneâ€Oxide Hybrid Nested Hierarchical Networks for Highâ€Performance Liâ€“S Batteries. Advanced Materials, 2016, 28, 1603-1609.	11.1	497
28	3D Interconnected Electrode Materials with Ultrahigh Areal Sulfur Loading for Liâ€“S Batteries. Advanced Materials, 2016, 28, 3374-3382.	11.1	488
29	Synergistic Effects of B/N Doping on the Visibleâ€Light Photocatalytic Activity of Mesoporous TiO₂. Angewandte Chemie - International Edition, 2008, 47, 4516-4520.	7.2	484
30	Enhanced photocatalytic hydrogen evolution by prolonging the lifetime of carriers in ZnO/CdS heterostructures. Chemical Communications, 2009, , 3452.	2.2	476
31	A flexible nanostructured sulphurâ€“carbon nanotube cathode with high rate performance for Li-S batteries. Energy and Environmental Science, 2012, 5, 8901.	15.6	468
32	Hierarchical porous nickel oxide and carbon as electrode materials for asymmetric supercapacitor. Journal of Power Sources, 2008, 185, 1563-1568.	4.0	439
33	Preparation of capacitorâ€™s electrode from sunflower seed shell. Bioresource Technology, 2011, 102, 1118-1123.	4.8	404
34	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. Nature Energy, 2020, 5, 160-168.	19.8	381
35	Nitrogenâ€Doped Carbon Monolith for Alkaline Supercapacitors and Understanding Nitrogenâ€Induced Redox Transitions. Chemistry - A European Journal, 2012, 18, 5345-5351.	1.7	358
36	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. Nano Energy, 2016, 25, 203-210.	8.2	347

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37	The Regulating Role of Carbon Nanotubes and Graphene in Lithiumâ€Ion and Lithiumâ€“Sulfur Batteries. Advanced Materials, 2019, 31, e1800863.	11.1	339
38	Scalable Clean Exfoliation of Highâ€Quality Fewâ€Layer Black Phosphorus for a Flexible Lithium Ion Battery. Advanced Materials, 2016, 28, 510-517.	11.1	336
39	Synthesis and electrochemical properties of mesoporous nickel oxide. Journal of Power Sources, 2004, 134, 324-330.	4.0	331
40	Nanosized Li4Ti5O12/graphene hybrid materials with low polarization for high rate lithium ion batteries. Journal of Power Sources, 2011, 196, 8610-8617.	4.0	306
41	3D Hierarchical Co₃O₄ Twinâ€Spheres with an Urchinâ€Like Structure: Largeâ€Scale Synthesis, Multistepâ€Splitting Growth, and Electrochemical Pseudocapacitors. Advanced Functional Materials, 2012, 22, 4052-4059.	7.8	289
42	2D Frameworks of C₂N and C₃N as New Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1702007.	11.1	282
43	The Rechargeable Aluminum Battery: Opportunities and Challenges. Angewandte Chemie - International Edition, 2019, 58, 11978-11996.	7.2	276
44	A microporousâ€“mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Liâ€“S batteries. Physical Chemistry Chemical Physics, 2012, 14, 8703.	1.3	273
45	Key Aspects of Lithium Metal Anodes for Lithium Metal Batteries. Small, 2019, 15, e1900687.	5.2	253
46	Toward More Reliable Lithiumâ€“Sulfur Batteries: An All-Graphene Cathode Structure. ACS Nano, 2016, 10, 8676-8682.	7.3	246
47	Metalâ€“Organic Frameworks (MOFs)â€Derived Nitrogenâ€Doped Porous Carbon Anchored on Graphene with Multifunctional Effects for Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1707592.	7.8	246
48	Homogeneous and Fast Ion Conduction of PEOâ€Based Solidâ€State Electrolyte at Low Temperature. Advanced Functional Materials, 2020, 30, 2007172.	7.8	246
49	Elemental superdoping of graphene and carbon nanotubes. Nature Communications, 2016, 7, 10921.	5.8	238
50	Visible Light Photocatalyst:Â Iodine-Doped Mesoporous Titania with a Bicrystalline Framework. Journal of Physical Chemistry B, 2006, 110, 20823-20828.	1.2	236
51	Metal/Oxide Interface Nanostructures Generated by Surface Segregation for Electrocatalysis. Nano Letters, 2015, 15, 7704-7710.	4.5	233
52	Nitrogenâ€Superdoped 3D Graphene Networks for Highâ€Performance Supercapacitors. Advanced Materials, 2017, 29, 1701677.	11.1	230
53	Fast ion transport and high capacitance of polystyrene-based hierarchical porous carbon electrode material for supercapacitors. Journal of Materials Chemistry, 2011, 21, 1970-1976.	6.7	220
54	A Sulfurâ€Rich Copolymer@CNT Hybrid Cathode with Dualâ€Confinement of Polysulfides for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials, 2017, 29, 1603835.	11.1	202

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55	Comparison of the rate capability of nanostructured amorphous and anatase TiO₂for lithium insertion using anodic TiO₂nanotube arrays. Nanotechnology, 2009, 20, 225701.	1.3	194
56	Novel Boron Nitride Hollow Nanoribbons. ACS Nano, 2008, 2, 2183-2191.	7.3	192
57	An Anionâ€Tuned Solid Electrolyte Interphase with Fast Ion Transfer Kinetics for Stable Lithium Anodes. Advanced Energy Materials, 2020, 10, 1903843.	10.2	186
58	Single-wall carbon nanotube network enabled ultrahigh sulfur-content electrodes for high-performance lithium-sulfur batteries. Nano Energy, 2017, 42, 205-214.	8.2	183
59	CuS Microspheres with Tunable Interlayer Space and Micropore as a Highâ€Rate and Longâ€Life Anode for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1800930.	10.2	183
60	A low crystallinity oxygen-vacancy-rich Co₃O₄ cathode for high-performance flexible asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 16094-16100.	5.2	182
61	A highly reversible Co3S4 microsphere cathode material for aluminum-ion batteries. Nano Energy, 2019, 56, 100-108.	8.2	179
62	Hierarchical Grapheneâ€“Carbon Fiber Composite Paper as a Flexible Lateral Heat Spreader. Advanced Functional Materials, 2014, 24, 4222-4228.	7.8	178
63	Hybridization design of materials and devices for flexible electrochemical energy storage. Energy Storage Materials, 2019, 19, 212-241.	9.5	163
64	Electrochemical interfacial capacitance in multilayer graphene sheets: Dependence on number of stacking layers. Electrochemistry Communications, 2009, 11, 1729-1732.	2.3	160
65	Controlled Electrochemical Charge Injection to Maximize the Energy Density of Supercapacitors. Angewandte Chemie - International Edition, 2013, 52, 3722-3725.	7.2	160
66	Heteroatoms dual-doped hierarchical porous carbon-selenium composite for durable Liâ€“Se and Naâ€“Se batteries. Nano Energy, 2018, 49, 137-146.	8.2	158
67	Polysulfide immobilization and conversion on a conductive polar MoC@MoOx material for lithium-sulfur batteries. Energy Storage Materials, 2018, 10, 56-61.	9.5	157
68	An Aluminumâ€“Sulfur Battery with a Fast Kinetic Response. Angewandte Chemie - International Edition, 2018, 57, 1898-1902.	7.2	154
69	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.	6.7	153
70	Kinetically Enhanced Electrochemical Redox of Polysulfides on Polymeric Carbon Nitrides for Improved Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 25193-25201.	4.0	149
71	Effect of Pore Packing Defects in 2-D Ordered Mesoporous Carbons on Ionic Transport. Journal of Physical Chemistry B, 2006, 110, 8570-8575.	1.2	144
72	Structure-related electrochemical performance of organosulfur compounds for lithiumâ€“sulfur batteries. Energy and Environmental Science, 2020, 13, 1076-1095.	15.6	143

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73	Improved electrochemical performance of Fe2O3 nanoparticles confined in carbon nanotubes. Journal of Materials Chemistry, 2012, 22, 13756.	6.7	142
74	Morphology, diameter distribution and Raman scattering measurements of double-walled carbon nanotubes synthesized by catalytic decomposition of methane. Chemical Physics Letters, 2002, 359, 196-202.	1.2	139
75	Monolithic Fe2O3/graphene hybrid for highly efficient lithium storage and arsenic removal. Carbon, 2014, 67, 500-507.	5.4	137
76	Exceptional supercapacitor performance from optimized oxidation of graphene-oxide. Energy Storage Materials, 2019, 17, 12-21.	9.5	135
77	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, 5232-5235.	6.6	134
78	Stabilizing sulfur cathodes using nitrogen-doped graphene as a chemical immobilizer for Li S batteries. Carbon, 2016, 108, 120-126.	5.4	134
79	An aqueous dissolved polysulfide cathode for lithiumâ€“sulfur batteries. Energy and Environmental Science, 2014, 7, 3307-3312.	15.6	131
80	A Selfâ€Standing and Flexible Electrode of Li₄Ti₅O₁₂ Nanosheets with a Nâ€Doped Carbon Coating for High Rate Lithium Ion Batteries. Advanced Functional Materials, 2013, 23, 5429-5435.	7.8	128
81	Tin quantum dots embedded in nitrogen-doped carbon nanofibers as excellent anode for lithium-ion batteries. Nano Energy, 2014, 9, 61-70.	8.2	127
82	Insights into the deposition chemistry of Li ions in nonaqueous electrolyte for stable Li anodes. Chemical Society Reviews, 2021, 50, 3178-3210.	18.7	126
83	Effects of oxygen vacancies on the electrochemical performance of tin oxide. Journal of Materials Chemistry A, 2013, 1, 1536-1539.	5.2	125
84	Nano-sized cobalt oxide/mesoporous carbon sphere composites as negative electrode material for lithium-ion batteries. Electrochimica Acta, 2008, 53, 6497-6503.	2.6	121
85	A trilayer separator with dual function for high performance lithiumâ€“sulfur batteries. Journal of Power Sources, 2016, 301, 179-186.	4.0	117
86	Challenges and Recent Progress on Siliconâ€Based Anode Materials for Nextâ€Generation Lithiumâ€Ion Batteries. Small Structures, 2021, 2, 2100009.	6.9	117
87	Preparation and electrochemical property of Fe2O3 nanoparticles-filled carbon nanotubes. Chemical Communications, 2010, 46, 8576.	2.2	116
88	Importance of Oxygen in the Metal-Free Catalytic Growth of Single-Walled Carbon Nanotubes from SiO_x by a Vaporâ€'Solidâ€'Solid Mechanism. Journal of the American Chemical Society, 2011, 133, 197-199.	6.6	116
89	High Reversible Lithium Storage Capacity and Structural Changes of Fe₂O₃ Nanoparticles Confined inside Carbon Nanotubes. Advanced Energy Materials, 2016, 6, 1501755.	10.2	109
90	Challenges and development of lithium-ion batteries for low temperature environments. ETransportation, 2022, 11, 100145.	6.8	108

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91	Hierarchical porous carbons: design, preparation, and performance in energy storage. New Carbon Materials, 2011, 26, 171-179.	2.9	107
92	Electrochemical performance of pyrolytic carbon-coated natural graphite spheres. Carbon, 2006, 44, 2212-2218.	5.4	105
93	Lithiation of Silicon Nanoparticles Confined in Carbon Nanotubes. ACS Nano, 2015, 9, 5063-5071.	7.3	105
94	Novel Conductive Metalâ€“Organic Framework for a High-Performance Lithiumâ€“Sulfur Battery Host: 2D Cu-Benzenehexathial (BHT). ACS Applied Materials & Interfaces, 2018, 10, 15012-15020.	4.0	105
95	The effect of carbonyl, carboxyl and hydroxyl groups on the capacitance of carbon nanotubes. New Carbon Materials, 2011, 26, 224-228.	2.9	104
96	In suit growth of ultradispersed NiCo2S4 nanoparticles on graphene for asymmetric supercapacitors. Electrochimica Acta, 2015, 176, 44-50.	2.6	103
97	Carbon-coated WS₂ nanosheets supported on carbon nanofibers for high-rate potassium-ion capacitors. Energy and Environmental Science, 2021, 14, 3184-3193.	15.6	100
98	Mesopore-Aspect-Ratio Dependence of Ion Transport in Rodtype Ordered Mesoporous Carbon. Journal of Physical Chemistry C, 2008, 112, 9950-9955.	1.5	98
99	Co3O4 mesoporous nanostructures@graphene membrane as an integrated anode for long-life lithium-ion batteries. Journal of Power Sources, 2014, 255, 52-58.	4.0	98
100	Renewable biomassâ€derived carbons for electrochemical capacitor applications. SusMat, 2021, 1, 211-240.	7.8	98
101	Aligned Titania Nanotubes as an Intercalation Anode Material for Hybrid Electrochemical Energy Storage. Advanced Functional Materials, 2008, 18, 3787-3793.	7.8	97
102	Borophene as Efficient Sulfur Hosts for Lithiumâ€“Sulfur Batteries: Suppressing Shuttle Effect and Improving Conductivity. Journal of Physical Chemistry C, 2017, 121, 15549-15555.	1.5	97
103	Carbonâ€Nanotubeâ€Array Double Helices. Angewandte Chemie - International Edition, 2010, 49, 3642-3645.	7.2	96
104	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.	5.2	96
105	Charge delivery goes the distance. Science, 2017, 356, 582-583.	6.0	96
106	Mesoporous TiN microspheres as an efficient polysulfide barrier for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 14359-14366.	5.2	96
107	Improved capacitance of SBA-15 templated mesoporous carbons after modification with nitric acid oxidation. New Carbon Materials, 2007, 22, 307-314.	2.9	95
108	Ionâ€Dipole Chemistry Drives Rapid Evolution of Li Ions Solvation Sheath in Lowâ€Temperature Li Batteries. Advanced Energy Materials, 2021, 11, 2100935.	10.2	95

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109	A high-density grapheneâ€“sulfur assembly: a promising cathode for compact Liâ€“S batteries. Nanoscale, 2015, 7, 5592-5597.	2.8	92
110	Reliable liquid electrolytes for lithium metal batteries. Energy Storage Materials, 2020, 30, 113-129.	9.5	92
111	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.	4.0	90
112	New Insight into the Solid Electrolyte Interphase with Use of a Focused Ion Beam. Journal of Physical Chemistry B, 2005, 109, 22205-22211.	1.2	89
113	Diameter-Selective Growth of Single-Walled Carbon Nanotubes with High Quality by Floating Catalyst Method. ACS Nano, 2008, 2, 1722-1728.	7.3	88
114	High-rate lithium storage of anatase TiO2 crystals doped with both nitrogen and sulfur. Chemical Communications, 2013, 49, 3461.	2.2	84
115	Tunable Interaction between Metalâ€Organic Frameworks and Electroactive Components in Lithiumâ€“Sulfur Batteries: Status and Perspectives. Advanced Energy Materials, 2021, 11, 2100387.	10.2	84
116	Armoring Graphene Cathodes for Highâ€Rate and Longâ€Life Lithium Ion Supercapacitors. Advanced Energy Materials, 2016, 6, 1502064.	10.2	83
117	Single-walled carbon nanotubes modified by electrochemical treatment for application in electrochemical capacitors. Journal of Power Sources, 2006, 160, 758-761.	4.0	78
118	Resorcinol-formaldehyde based carbon aerogel: Preparation, structure and applications in energy storage devices. Microporous and Mesoporous Materials, 2019, 279, 293-315.	2.2	78
119	Bi-Cation Electrolyte for a 1.7 V Aqueous Zn Ion Battery. ACS Applied Materials & Interfaces, 2020, 12, 13790-13796.	4.0	78
120	The examination of graphene oxide for rechargeable lithium storage as a novel cathode material. Journal of Materials Chemistry A, 2013, 1, 3607.	5.2	73
121	A LiF Nanoparticleâ€Modified Graphene Electrode for Highâ€Power and Highâ€Energy Lithium Ion Batteries. Advanced Functional Materials, 2012, 22, 3290-3297.	7.8	70
122	Nanosize SnO2 confined in the porous shells of carbon cages for kinetically efficient and long-term lithium storage. Nanoscale, 2013, 5, 1576.	2.8	70
123	One-pot synthesis of MnOOH nanorods on graphene for asymmetric supercapacitors. Electrochimica Acta, 2014, 127, 200-207.	2.6	70
124	Preparation, morphology, and microstructure of diameter-controllable vapor-grown carbon nanofibers. Journal of Materials Research, 1998, 13, 2342-2346.	1.2	69
125	Synthesis of different magnetic carbon nanostructures by the pyrolysis of ferrocene at different sublimation temperatures. Carbon, 2008, 46, 1892-1902.	5.4	69
126	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.	6.7	69

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127	Efficient polysulfide blocker from conductive niobium nitride@graphene for Li-S batteries. Journal of Energy Chemistry, 2020, 45, 135-141.	7.1	69
128	Necklace-like MoC sulfiphilic sites embedded in interconnected carbon networks for Liâ€“S batteries with high sulfur loading. Journal of Materials Chemistry A, 2019, 7, 11298-11304.	5.2	68
129	Tailoring Microstructure of Grapheneâ€Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. Advanced Functional Materials, 2014, 24, 3456-3463.	7.8	67
130	A Nanosheet Array of Cu₂Se Intercalation Compound with Expanded Interlayer Space for Sodium Ion Storage. Advanced Energy Materials, 2020, 10, 2000666.	10.2	67
131	Influence of ferrocene/benzene mole ratio on the synthesis of carbon nanostructures. Chemical Physics Letters, 2003, 376, 83-89.	1.2	65
132	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.	4.0	65
133	Synthesis and characterization of double-walled carbon nanotubes from multi-walled carbon nanotubes by hydrogen-arc discharge. Carbon, 2005, 43, 623-629.	5.4	64
134	Synthesis and photoluminescence of tetrapod ZnO nanostructures. Chemical Physics Letters, 2007, 434, 301-305.	1.2	64
135	From interlayer to lightweight capping layer: Rational design of mesoporous TiO2 threaded with CNTs for advanced Liâ€“S batteries. Carbon, 2019, 143, 523-530.	5.4	64
136	TiO2/graphene sandwich paper as an anisotropic electrode for high rate lithium ion batteries. Nanoscale, 2013, 5, 7780.	2.8	63
137	Localized polyselenides in a graphene-coated polymer separator for high rate and ultralong life lithiumâ€“selenium batteries. Chemical Communications, 2015, 51, 3667-3670.	2.2	63
138	Single-atom catalysts for metal-sulfur batteries: Current progress and future perspectives. Journal of Energy Chemistry, 2021, 54, 452-466.	7.1	63
139	Urchin-like nano/micro hybrid anode materials for lithium ion battery. Carbon, 2006, 44, 2778-2784.	5.4	62
140	The Effect of Sulfur on the Structure of Carbon Nanotubes Produced by a Floating Catalyst Method. Journal of Nanoscience and Nanotechnology, 2006, 6, 1339-1345.	0.9	62
141	Silicon-induced oriented ZnS nanobelts for hydrogen sensitivity. Nanotechnology, 2008, 19, 055710.	1.3	60
142	Efficient and stable photocatalytic H2 evolution from water splitting by (Cd0.8Zn0.2)S nanorods. Electrochemistry Communications, 2009, 11, 1174-1178.	2.3	60
143	Direct synthesis of carbon nanotubes decorated with size-controllable Fe nanoparticles encapsulated by graphitic layers. Carbon, 2008, 46, 1417-1423.	5.4	57
144	Semiconducting properties of cup-stacked carbon nanotubes. Carbon, 2009, 47, 731-736.	5.4	56

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145	Preparation of single-crystal Î±-MnO2 nanorods and nanoneedles from aqueous solution. Journal of Alloys and Compounds, 2005, 397, 282-285.	2.8	55
146	3D Aperiodic Hierarchical Porous Graphitic Carbon Material for Highâ€Rate Electrochemical Capacitive Energy Storage. Angewandte Chemie - International Edition, 2009, 48, 1525-1525.	7.2	55
147	An integrated electrode/separator with nitrogen and nickel functionalized carbon hybrids for advanced lithium/polysulfide batteries. Carbon, 2016, 109, 719-726.	5.4	55
148	An in-situ solidification strategy to block polysulfides in Lithium-Sulfur batteries. Energy Storage Materials, 2021, 37, 224-232.	9.5	55
149	The role of NH3 atmosphere in preparing nitrogen-doped TiO2 by mechanochemical reaction. Journal of Solid State Chemistry, 2006, 179, 331-335.	1.4	53
150	All Two-Dimensional Pseudocapacitive Sheet Materials for Flexible Asymmetric Solid-State Planar Microsupercapacitors with High Energy Density. ACS Nano, 2020, 14, 603-610.	7.3	53
151	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.	15.6	53
152	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.	7.3	52
153	Electronic structure adjustment of lithium sulfide by a single-atom copper catalyst toward high-rate lithium-sulfur batteries. Energy Storage Materials, 2022, 51, 890-899.	9.5	52
154	Synthesis and High Thermal Stability of Double-Walled Carbon Nanotubes Using Nickel Formate Dihydrate as Catalyst Precursor. Journal of Physical Chemistry C, 2007, 111, 5006-5013.	1.5	50
155	Selective removal of metallic single-walled carbon nanotubes by combined in situ and post-synthesis oxidation. Carbon, 2010, 48, 2941-2947.	5.4	50
156	Dissolutionâ€“Precipitation Dynamics in Ester Electrolyte for High-Stability Lithium Metal Batteries. ACS Energy Letters, 0, , 1413-1421.	8.8	50
157	Octahedral Co3O4 particles threaded by carbon nanotube arrays as integrated structure anodes for lithium ion batteries. Physical Chemistry Chemical Physics, 2013, 15, 5582.	1.3	49
158	Growth, Cathodoluminescence and Field Emission of ZnS Tetrapod Treeâ€like Heterostructures. Advanced Functional Materials, 2008, 18, 3063-3069.	7.8	48
159	Visualizing the roles of graphene for excellent lithium storage. Journal of Materials Chemistry A, 2014, 2, 17808-17814.	5.2	48
160	Field Emission and Cathodoluminescence of ZnS Hexagonal Pyramids of Zinc Blende Structured Single Crystals. Advanced Functional Materials, 2009, 19, 484-490.	7.8	47
161	Paragenesis BN/CNTs hybrid as a monoclinic sulfur host for high rate and ultra-long life lithiumâ€“sulfur battery. Journal of Materials Chemistry A, 2018, 6, 24194-24200.	5.2	47
162	Smart Materials and Design toward Safe and Durable Lithium Ion Batteries. Small Methods, 2019, 3, 1900323.	4.6	47

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163	Synthesis of Tin (II or IV) Oxide Coated Multiwall Carbon Nanotubes with Controlled Morphology. Journal of Physical Chemistry C, 2008, 112, 5790-5794.	1.5	46
164	Substitutional Carbonâ€Modified Anatase TiO₂ Decahedral Plates Directly Derived from Titanium Oxalate Crystals via Topotactic Transition. Advanced Materials, 2018, 30, e1705999.	11.1	46
165	Evidence for, and an Understanding of, the Initial Nucleation of Carbon Nanotubes Produced by a Floating Catalyst Method. Journal of Physical Chemistry B, 2006, 110, 16941-16946.	1.2	45
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