G X Wang

List of Publications by Year in descending order

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724 papers	73,153 citations	268 141 h-index	983 237 g-index
744 all docs	744 docs citations	744 times ranked	49312 citing authors

#	Article	IF	Citations
1	Improved Oxygen Reduction Activity on Pt3Ni(111) via Increased Surface Site Availability. Science, 2007, 315, 493-497.	12.6	3,924
2	Facile Synthesis and Characterization of Graphene Nanosheets. Journal of Physical Chemistry C, 2008, 112, 8192-8195.	3.1	1,894
3	Graphene nanosheets for enhanced lithium storage in lithium ion batteries. Carbon, 2009, 47, 2049-2053.	10.3	1,281
4	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. Nature Catalysis, 2018, 1, 985-992.	34.4	1,236
5	Super Plastic Bulk Metallic Glasses at Room Temperature. Science, 2007, 315, 1385-1388.	12.6	1,033
6	Polymer Electrolytes for Lithium-Based Batteries: Advances and Prospects. CheM, 2019, 5, 2326-2352.	11.7	801
7	Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Naâ€Ion Storage. Advanced Materials, 2017, 29, 1702410.	21.0	757
8	Preparation and Electrochemical Properties of SnO2 Nanowires for Application in Lithium-Ion Batteries. Angewandte Chemie - International Edition, 2007, 46, 750-753.	13.8	756
9	Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. Nano Energy, 2016, 26, 513-523.	16.0	710
10	Tuning the Coordination Environment in Single-Atom Catalysts to Achieve Highly Efficient Oxygen Reduction Reactions. Journal of the American Chemical Society, 2019, 141, 20118-20126.	13.7	683
11	MoS₂/Graphene Composite Anodes with Enhanced Performance for Sodiumâ€Ion Batteries: The Role of the Twoâ€Dimensional Heterointerface. Advanced Functional Materials, 2015, 25, 1393-1403.	14.9	657
12	Occurrence of radical and nonradical pathways from carbocatalysts for aqueous and nonaqueous catalytic oxidation. Applied Catalysis B: Environmental, 2016, 188, 98-105.	20.2	570
13	Synthesis and characterisation of hydrophilic and organophilic graphene nanosheets. Carbon, 2009, 47, 1359-1364.	10.3	565
14	Sn/graphene nanocomposite with 3D architecture for enhanced reversible lithium storage in lithium ion batteries. Journal of Materials Chemistry, 2009, 19, 8378.	6.7	523
15	In situ chemical synthesis of SnO2â€“graphene nanocomposite as anode materials for lithium-ion batteries. Electrochemistry Communications, 2009, 11, 1849-1852.	4.7	520
16	Graphitic Carbon Conformal Coating of Mesoporous TiO₂ Hollow Spheres for High-Performance Lithium Ion Battery Anodes. Journal of the American Chemical Society, 2015, 137, 13161-13166.	13.7	518
17	Highâ€Capacity Aqueous Potassiumâ€Ion Batteries for Largeâ€Scale Energy Storage. Advanced Materials, 2017, 29, 1604007.	21.0	494
18	Facile Synthesis of Crumpled Nitrogenâ€Doped MXene Nanosheets as a New Sulfur Host for Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1702485.	19.5	488

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19	MXene (Ti₃C₂) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO₂. Journal of the American Chemical Society, 2019, 141, 4086-4093.	13.7	479
20	Highly ordered mesoporous NiO anode material for lithium ion batteries with an excellent electrochemical performance. Journal of Materials Chemistry, 2011, 21, 3046.	6.7	456
21	Highly Ordered Mesoporous MoS₂ with Expanded Spacing of the (002) Crystal Plane for Ultrafast Lithium Ion Storage. Advanced Energy Materials, 2012, 2, 970-975.	19.5	455
22	Synthesis of enhanced hydrophilic and hydrophobic graphene oxide nanosheets by a solvothermal method. Carbon, 2009, 47, 68-72.	10.3	446
23	MoS₂ Nanosheets Vertically Aligned on Carbon Paper: A Freestanding Electrode for Highly Reversible Sodiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1502161.	19.5	444
24	â€œSuperaerophobicâ€•Nickel Phosphide Nanoarray Catalyst for Efficient Hydrogen Evolution at Ultrahigh Current Densities. Journal of the American Chemical Society, 2019, 141, 7537-7543.	13.7	401
25	Nanoengineering of 2D MXeneâ€Based Materials for Energy Storage Applications. Small, 2021, 17, e1902085.	10.0	398
26	3D Porous Copper Skeleton Supported Zinc Anode toward High Capacity and Long Cycle Life Zinc Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 3364-3371.	6.7	387
27	Robust optical emission polarization in MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>monolayers through selective valley excitation. Physical Review B, 2012, 86, .	3.2	385
28	Mesoporous LiFePO₄/C Nanocomposite Cathode Materials for High Power Lithium Ion Batteries with Superior Performance. Advanced Materials, 2010, 22, 4944-4948.	21.0	380
29	Hydrothermal Synthesis and Optical, Magnetic, and Supercapacitance Properties of Nanoporous Cobalt Oxide Nanorods. Journal of Physical Chemistry C, 2009, 113, 4357-4361.	3.1	374
30	A room-temperature sodiumâ€“sulfur battery with high capacity and stable cycling performance. Nature Communications, 2018, 9, 3870.	12.8	367
31	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	3.2	365
32	Unveiling the active sites of graphene-catalyzed peroxymonosulfate activation. Carbon, 2016, 107, 371-378.	10.3	359
33	Advances in Lithiumâ€“Sulfur Batteries: From Academic Research to Commercial Viability. Advanced Materials, 2021, 33, e2003666.	21.0	357
34	Promoting lithium polysulfide/sulfide redox kinetics by the catalyzing of zinc sulfide for high performance lithium-sulfur battery. Nano Energy, 2018, 51, 73-82.	16.0	350
35	Reduced graphene oxides: the thinnest and most lightweight materials with highly efficient microwave attenuation performances of the carbon world. Nanoscale, 2014, 6, 5754-5761.	5.6	347
36	Ultrathin MoS₂ Nanosheets as Anode Materials for Sodiumâ€Ion Batteries with Superior Performance. Advanced Energy Materials, 2015, 5, 1401205.	19.5	341

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37	2D Metal Carbides and Nitrides (MXenes) as Highâ€Performance Electrode Materials for Lithiumâ€Based Batteries. Advanced Energy Materials, 2018, 8, 1801897.	19.5	341
38	SnO2@graphene nanocomposites as anode materials for Na-ion batteries with superior electrochemical performance. Chemical Communications, 2013, 49, 3131.	4.1	332
39	Porous Graphene Nanoarchitectures: An Efficient Catalyst for Low Charge-Overpotential, Long Life, and High Capacity Lithiumâ€“Oxygen Batteries. Nano Letters, 2014, 14, 3145-3152.	9.1	329
40	Single-Crystalline Bilayered V₂O₅ Nanobelts for High-Capacity Sodium-Ion Batteries. ACS Nano, 2013, 7, 11218-11226.	14.6	326
41	Porous Cryo-Dried MXene for Efficient Capacitive Deionization. Joule, 2018, 2, 778-787.	24.0	326
42	Cobalt-Based Layered Metalâ€“Organic Framework as an Ultrahigh Capacity Supercapacitor Electrode Material. ACS Applied Materials & Interfaces, 2016, 8, 4585-4591.	8.0	323
43	Highly efficient and large-scale synthesis of graphene by electrolytic exfoliation. Carbon, 2009, 47, 3242-3246.	10.3	322
44	Synthesis of NiO nanotubes for use as negative electrodes in lithium ion batteries. Journal of Power Sources, 2006, 159, 254-257.	7.8	312
45	Multivalent metal ion hybrid capacitors: a review with a focus on zinc-ion hybrid capacitors. Journal of Materials Chemistry A, 2019, 7, 13810-13832.	10.3	312
46	Synthesis of Mesoporous Î±-Fe₂O₃ Nanostructures for Highly Sensitive Gas Sensors and High Capacity Anode Materials in Lithium Ion Batteries. Journal of Physical Chemistry C, 2010, 114, 18753-18761.	3.1	311
47	The Effect of Morphological Modification on the Electrochemical Properties of SnO₂ Nanomaterials. Advanced Functional Materials, 2008, 18, 455-461.	14.9	306
48	Fabrication of Nâ€doped Grapheneâ€“Carbon Nanotube Hybrids from Prussian Blue for Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602014.	19.5	304
49	MnO/C coreâ€“shell nanorods as high capacity anode materials for lithium-ion batteries. Journal of Power Sources, 2011, 196, 3346-3349.	7.8	303
50	Deepâ€Eutecticâ€Solventâ€Based Selfâ€Healing Polymer Electrolyte for Safe and Longâ€Life Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 9134-9142.	13.8	292
51	Anatase TiO₂: Better Anode Material Than Amorphous and Rutile Phases of TiO₂ for Na-Ion Batteries. Chemistry of Materials, 2015, 27, 6022-6029.	6.7	279
52	Dendriteâ€Free Sodiumâ€Metal Anodes for Highâ€Energy Sodiumâ€Metal Batteries. Advanced Materials, 2018, 30, e1801334.	21.0	267
53	MOF-derived porous Nâ€“Co₃O₄@Nâ€“C nanododecahedra wrapped with reduced graphene oxide as a high capacity cathode for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 2797-2807.	10.3	266
54	Sulphur-polypyrrole composite positive electrode materials for rechargeable lithium batteries. Electrochimica Acta, 2006, 51, 4634-4638.	5.2	265

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55	Single wall carbon nanotube paper as anode for lithium-ion battery. Electrochimica Acta, 2005, 51, 23-28.	5.2	263
56	Porous Carbon Composites for Next Generation Rechargeable Lithium Batteries. Advanced Energy Materials, 2017, 7, 1700283.	19.5	263
57	Insights into N-doping in single-walled carbon nanotubes for enhanced activation of superoxides: a mechanistic study. Chemical Communications, 2015, 51, 15249-15252.	4.1	259
58	Bismuth: A new anode for the Na-ion battery. Nano Energy, 2015, 12, 88-95.	16.0	251
59	Nanostructured Siâ€“C composite anodes for lithium-ion batteries. Electrochemistry Communications, 2004, 6, 689-692.	4.7	246
60	Sb₂O₃/MXene(Ti₃C₂T_x) hybrid anode materials with enhanced performance for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 12445-12452.	10.3	245
61	MXeneâ€Based Dendriteâ€Free Potassium Metal Batteries. Advanced Materials, 2020, 32, e1906739.	21.0	244
62	An investigation of polypyrrole-LiFePO4 composite cathode materials for lithium-ion batteries. Electrochimica Acta, 2005, 50, 4649-4654.	5.2	241
63	Magnetite/carbon core-shell nanorods as anode materials for lithium-ion batteries. Electrochemistry Communications, 2008, 10, 1879-1882.	4.7	239
64	Chemical synthesis, characterisation and gas sensing performance of copper oxide nanoribbons. Journal of Materials Chemistry, 2008, 18, 965.	6.7	238
65	Graphene nanosheets as cathode catalysts for lithium-air batteries with an enhanced electrochemical performance. Carbon, 2012, 50, 727-733.	10.3	238
66	Graphene-Co3O4 nanocomposite as electrocatalyst with high performance for oxygen evolution reaction. Scientific Reports, 2015, 5, 7629.	3.3	234
67	Immobilizing Polysulfides with MXene-Functionalized Separators for Stable Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 29427-29433.	8.0	234
68	SnO2@MWCNT nanocomposite as a high capacity anode material for sodium-ion batteries. Electrochemistry Communications, 2013, 29, 8-11.	4.7	232
69	Mn3O4 nanoparticles embedded into graphene nanosheets: Preparation, characterization, and electrochemical properties for supercapacitors. Electrochimica Acta, 2010, 55, 6812-6817.	5.2	231
70	Improved Electrochemical Performance of Naâ€Ion Batteries in Etherâ€Based Electrolytes: A Case Study of ZnS Nanospheres. Advanced Energy Materials, 2016, 6, 1501785.	19.5	229
71	Naâ€Ion Batteriesâ€”Approaching Old and New Challenges. Advanced Energy Materials, 2020, 10, 2002055.	19.5	229
72	Synthesis and Characterization of Rutile SnO2 Nanorods. Advanced Materials, 2001, 13, 1883.	21.0	227

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73	Electrochemical performance of Î±-Fe2O3 nanorods as anode material for lithium-ion cells. Electrochimica Acta, 2009, 54, 1733-1736.	5.2	226
74	Rational design of free-standing 3D porous MXene/rGO hybrid aerogels as polysulfide reservoirs for high-energy lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 6507-6513.	10.3	226
75	WS2@graphene nanocomposites as anode materials for Na-ion batteries with enhanced electrochemical performances. Chemical Communications, 2014, 50, 4192.	4.1	224
76	Boosting Performance of Naâ€“S Batteries Using Sulfur-Doped Ti₃C₂T_x MXene Nanosheets with a Strong Affinity to Sodium Polysulfides. ACS Nano, 2019, 13, 11500-11509.	14.6	220
77	Edge-Functionalized g-C3N4 Nanosheets as a Highly Efficient Metal-free Photocatalyst for Safe Drinking Water. CheM, 2019, 5, 664-680.	11.7	219
78	Nitrogenâ€Doped Porous Carbon Supported Nonprecious Metal Singleâ€Atom Electrocatalysts: from Synthesis to Application. Small Methods, 2019, 3, 1900159.	8.6	218
79	Hydrothermal synthesis of Î±-MnO2 and Î²-MnO2 nanorods as high capacity cathode materials for sodium ion batteries. Journal of Materials Chemistry A, 2013, 1, 4845.	10.3	215
80	MXeneâ€Based Composites: Synthesis and Applications in Rechargeable Batteries and Supercapacitors. Advanced Materials Interfaces, 2019, 6, 1802004.	3.7	214
81	Tensile tests of ropes of very long aligned multiwall carbon nanotubes. Applied Physics Letters, 1999, 74, 3152-3154.	3.3	213
82	Discharge mechanism of MoS2 for sodium ion battery: Electrochemical measurements and characterization. Electrochimica Acta, 2013, 92, 427-432.	5.2	213
83	Co-estimation of state-of-charge, capacity and resistance for lithium-ion batteries based on a high-fidelity electrochemical model. Applied Energy, 2016, 180, 424-434.	10.1	213
84	Electrode Materials for Sodium-Ion Batteries: Considerations on Crystal Structures and Sodium Storage Mechanisms. Electrochemical Energy Reviews, 2018, 1, 200-237.	25.5	213
85	Coâ€“Fe Mixed Metal Phosphide Nanocubes with Highly Interconnected-Pore Architecture as an Efficient Polysulfide Mediator for Lithiumâ€“Sulfur Batteries. ACS Nano, 2019, 13, 4731-4741.	14.6	212
86	3D Metal Carbide@Mesoporous Carbon Hybrid Architecture as a New Polysulfide Reservoir for Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2016, 26, 8746-8756.	14.9	210
87	Solvothermal synthesis of CoS2â€“graphene nanocomposite material for high-performance supercapacitors. Journal of Materials Chemistry, 2012, 22, 15750.	6.7	205
88	Updated Metal Compounds (MOFs, ï£¿S, ï£¿OH, ï£¿N, ï£¿C) Used as Cathode Materials for Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1702607.	19.5	202
89	Single Crystalline Co3O4 Nanocrystals Exposed with Different Crystal Planes for Li-O2 Batteries. Scientific Reports, 2014, 4, 5767.	3.3	201
90	Single Crystalline Na_{0.7}MnO₂ Nanoplates as Cathode Materials for Sodiumâ€Ion Batteries with Enhanced Performance. Chemistry - A European Journal, 2013, 19, 10884-10889.	3.3	194

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91	Interface Modulation of Two-Dimensional Superlattices for Efficient Overall Water Splitting. Nano Letters, 2019, 19, 4518-4526.	9.1	191
92	Manganese-Based Layered Coordination Polymer: Synthesis, Structural Characterization, Magnetic Property, and Electrochemical Performance in Lithium-Ion Batteries. Inorganic Chemistry, 2013, 52, 2817-2822.	4.0	188
93	Incremental capacity analysis and differential voltage analysis based state of charge and capacity estimation for lithium-ion batteries. Energy, 2018, 150, 759-769.	8.8	188
94	Flexible and conductive scaffold-stabilized zinc metal anodes for ultralong-life zinc-ion batteries and zinc-ion hybrid capacitors. Chemical Engineering Journal, 2020, 384, 123355.	12.7	188
95	Highly Porous NiCo₂O₄ Nanoflakes and Nanobelts as Anode Materials for Lithium-Ion Batteries with Excellent Rate Capability. ACS Applied Materials & Interfaces, 2014, 6, 14827-14835.	8.0	187
96	High-power lithiumâ€“selenium batteries enabled by atomic cobalt electrocatalyst in hollow carbon cathode. Nature Communications, 2020, 11, 5025.	12.8	187
97	An ordered mesoporous WS2 anode material with superior electrochemical performance for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 17437.	6.7	186
98	Solvothermal synthesis and gas-sensing performance of Co3O4 hollow nanospheres. Sensors and Actuators B: Chemical, 2009, 136, 494-498.	7.8	185
99	Sn@CNT nanopillars grown perpendicularly on carbon paper: A novel free-standing anode for sodium ion batteries. Nano Energy, 2015, 13, 208-217.	16.0	185
100	Mesoporous MnCo₂O₄ with a Flakeâ€Like Structure as Advanced Electrode Materials for Lithiumâ€Ion Batteries and Supercapacitors. Chemistry - A European Journal, 2015, 21, 1526-1532.	3.3	183
101	Investigation of cobalt oxides as anode materials for Li-ion batteries. Journal of Power Sources, 2002, 109, 142-147.	7.8	182
102	Cobalt-doped MnO2 ultrathin nanosheets with abundant oxygen vacancies supported on functionalized carbon nanofibers for efficient oxygen evolution. Nano Energy, 2018, 54, 129-137.	16.0	182
103	Temperatureâ€Dependent Nucleation and Growth of Dendriteâ€Free Lithium Metal Anodes. Angewandte Chemie - International Edition, 2019, 58, 11364-11368.	13.8	182
104	A simple wet-chemical synthesis and characterization of CuO nanorods. Applied Physics A: Materials Science and Processing, 2003, 76, 417-420.	2.3	181
105	A Stable Quasiâ€Solidâ€State Sodiumâ€“Sulfur Battery. Angewandte Chemie - International Edition, 2018, 57, 10168-10172.	13.8	178
106	Design Strategies to Enable the Efficient Use of Sodium Metal Anodes in Highâ€Energy Batteries. Advanced Materials, 2020, 32, e1903891.	21.0	173
107	Revitalising sodiumâ€“sulfur batteries for non-high-temperature operation: a crucial review. Energy and Environmental Science, 2020, 13, 3848-3879.	30.8	172
108	Discharge reaction mechanism of room-temperature sodiumâ€“sulfur battery with tetra ethylene glycol dimethyl ether liquid electrolyte. Journal of Power Sources, 2011, 196, 5186-5190.	7.8	171

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109	Conductivity improvements to spray-produced LiFePO4 by addition of a carbon source. Materials Letters, 2004, 58, 1788-1791.	2.6	170
110	Prussian Blue Nanocubes with an Open Framework Structure Coated with PEDOT as Highâ€Capacity Cathodes for Lithiumâ€“Sulfur Batteries. Advanced Materials, 2017, 29, 1700587.	21.0	170
111	Reaction Mechanisms of Layered Lithiumâ€Rich Cathode Materials for Highâ€Energy Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 2208-2220.	13.8	170
112	Microwave-assisted Synthesis of Mesoporous Co₃O₄ Nanoflakes for Applications in Lithium Ion Batteries and Oxygen Evolution Reactions. ACS Applied Materials & Interfaces, 2015, 7, 3306-3313.	8.0	169
113	Confined Sulfur in 3â€‰D MXene/Reduced Graphene Oxide Hybrid Nanosheets for Lithiumâ€“Sulfur Battery. Chemistry - A European Journal, 2017, 23, 12613-12619.	3.3	167
114	Stable Conversion Chemistryâ€Based Lithium Metal Batteries Enabled by Hierarchical Multifunctional Polymer Electrolytes with Nearâ€Single Ion Conduction. Angewandte Chemie - International Edition, 2019, 58, 6001-6006.	13.8	167
115	SnS₂ Nanoplatelet@Graphene Nanocomposites as Highâ€Capacity Anode Materials for Sodiumâ€Ion Batteries. Chemistry - an Asian Journal, 2014, 9, 1611-1617.	3.3	166
116	Honeycomb-like porous gel polymer electrolyte membrane for lithium ion batteries with enhanced safety. Scientific Reports, 2014, 4, 6007.	3.3	165
117	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. Carbon, 2016, 103, 404-411.	10.3	164
118	Hierarchical 3D mesoporous silicon@graphene nanoarchitectures for lithium ion batteries with superior performance. Nano Research, 2014, 7, 85-94.	10.4	163
119	Functional MXene Materials: Progress of Their Applications. Chemistry - an Asian Journal, 2018, 13, 2742-2757.	3.3	162
120	An electrochemical sensor on the hierarchically porous Cu-BTC MOF platform for glyphosate determination. Sensors and Actuators B: Chemical, 2019, 283, 487-494.	7.8	162
121	Mesoporous NiO crystals with dominantly exposed {110} reactive facets for ultrafast lithium storage. Scientific Reports, 2012, 2, 924.	3.3	160
122	In situ synthesis of Co3O4/graphene nanocomposite material for lithium-ion batteries and supercapacitors with high capacity and supercapacitance. Journal of Alloys and Compounds, 2011, 509, 7778-7783.	5.5	159
123	Ruthenium nanocrystals as cathode catalysts for lithium-oxygen batteries with a superior performance. Scientific Reports, 2013, 3, 2247.	3.3	158
124	The 2021 battery technology roadmap. Journal Physics D: Applied Physics, 2021, 54, 183001.	2.8	158
125	Nanostructured SnSb/Carbon Nanotube Composites Synthesized by Reductive Precipitation for Lithium-Ion Batteries. Chemistry of Materials, 2007, 19, 2406-2410.	6.7	157
126	Naturally nitrogen doped porous carbon derived from waste shrimp shells for high-performance lithium ion batteries and supercapacitors. Microporous and Mesoporous Materials, 2017, 246, 72-80.	4.4	156

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127	Nanoscale Periodic Morphologies on the Fracture Surface of Brittle Metallic Glasses. Physical Review Letters, 2007, 98, 235501.	7.8	155
128	Mesoporous Carbon Nanocube Architecture for Highâ€Performance Lithiumâ€“Oxygen Batteries. Advanced Functional Materials, 2015, 25, 4436-4444.	14.9	155
129	Boosting Sodium Storage in Two-Dimensional Phosphorene/Ti₃C₂T_x MXene Nanoarchitectures with Stable Fluorinated Interphase. ACS Nano, 2020, 14, 3651-3659.	14.6	155
130	3D Hyperbranched Hollow Carbon Nanorod Architectures for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1301761.	19.5	154
131	Liâ€‰/â€‰Li1â€‰+â€‰x â€‰Vâ€‰3â€‰Oâ€‰8 Secondary Batteries: Synthesis and Characterization of an Amorphous Form of the Cathode. Journal of the Electrochemical Society, 1990, 137, 2365-2370.	2.9	153
132	Hierarchical orthorhombic V2O5 hollow nanospheres as high performance cathode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 11185.	10.3	153
133	Synthesis of vanadium pentoxide powders with enhanced surface-area for electrochemical capacitors. Journal of Power Sources, 2006, 162, 1451-1454.	7.8	152
134	Highly ordered mesoporous Cr₂O₃materials with enhanced performance for gas sensors and lithium ion batteries. Chemical Communications, 2012, 48, 865-867.	4.1	152
135	Towards high-energy-density lithium-ion batteries: Strategies for developing high-capacity lithium-rich cathode materials. Energy Storage Materials, 2021, 34, 716-734.	18.0	149
136	Growth of SnO 2 nanowires with uniform branched structures. Solid State Communications, 2004, 130, 89-94.	1.9	148
137	Monodisperse hematite porous nanospheres: synthesis, characterization, and applications for gas sensors. Nanotechnology, 2008, 19, 125606.	2.6	147
138	Redoxâ€Active Organic Sodium Anthraquinoneâ€2â€Sulfonate (AQS) Anchored on Reduced Graphene Oxide for Highâ€Performance Supercapacitors. Advanced Energy Materials, 2018, 8, 1802088.	19.5	147
139	Advanced mechanical properties of graphene paper. Journal of Applied Physics, 2011, 109, .	2.5	146
140	Recent advances in understanding dendrite growth on alkali metal anodes. EnergyChem, 2019, 1, 100003.	19.1	146
141	Flutelike Porous Hematite Nanorods and Branched Nanostructures: Synthesis, Characterisation and Application for Gasâ€Sensing. Chemistry - A European Journal, 2008, 14, 5996-6002.	3.3	144
142	Current Progress on Rechargeable Magnesiumâ€“Air Battery. Advanced Energy Materials, 2017, 7, 1700869.	19.5	144
143	Facile Synthesis and Characterization of Iron Oxide Semiconductor Nanowires for Gas Sensing Application. Journal of Physical Chemistry C, 2008, 112, 15220-15225.	3.1	143
144	Hollow CoFe₂O₄nanospheres as a high capacity anode material for lithium ion batteries. Nanotechnology, 2012, 23, 055402.	2.6	140

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145	Cu₂O Decorated with Cocatalyst MoS₂ for Solar Hydrogen Production with Enhanced Efficiency under Visible Light. Journal of Physical Chemistry C, 2014, 118, 14238-14245.	3.1	138
146	A versatile functionalized ionic liquid to boost the solution-mediated performances of lithium-oxygen batteries. Nature Communications, 2019, 10, 602.	12.8	138
147	Quasi-Solid-State Dual-Ion Sodium Metal Batteries for Low-Cost Energy Storage. CheM, 2020, 6, 902-918.	11.7	137
148	In Situ Construction of Protective Films on Zn Metal Anodes via Natural Protein Additives Enabling High-Performance Zinc Ion Batteries. ACS Nano, 2022, 16, 11392-11404.	14.6	137
149	Highly Ordered Mesoporous Cobalt Oxide Nanostructures: Synthesis, Characterisation, Magnetic Properties, and Applications for Electrochemical Energy Devices. Chemistry - A European Journal, 2010, 16, 11020-11027.	3.3	136
150	Strain engineering of two-dimensional multilayered heterostructures for beyond-lithium-based rechargeable batteries. Nature Communications, 2020, 11, 3297.	12.8	134
151	Mesoporous Nickel Oxide Nanowires: Hydrothermal Synthesis, Characterisation and Applications for Lithiumâ€Ion Batteries and Supercapacitors with Superior Performance. Chemistry - A European Journal, 2012, 18, 8224-8229.	3.3	133
152	A nitrogenâ€“sulfur co-doped porous graphene matrix as a sulfur immobilizer for high performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 17381-17393.	10.3	133
153	Multi-chambered micro/mesoporous carbon nanocubes as new polysulfides reserviors for lithiumâ€“sulfur batteries with long cycle life. Nano Energy, 2015, 16, 268-280.	16.0	132
154	Nitrogenâ€Doped Porous Carbon Nanosheets from Ecoâ€Friendly Eucalyptus Leaves as High Performance Electrode Materials for Supercapacitors and Lithium Ion Batteries. Chemistry - A European Journal, 2017, 23, 3683-3690.	3.3	132
155	Porous Ti₃C₂T_x MXene for Ultrahigh-Rate Sodium-Ion Storage with Long Cycle Life. ACS Applied Nano Materials, 2018, 1, 505-511.	5.0	132
156	Recent Advances in Rechargeable Magnesiumâ€Based Batteries for Highâ€Efficiency Energy Storage. Advanced Energy Materials, 2020, 10, 1903591.	19.5	132
157	Spinel Li[Li1/3Ti5/3]O4 as an anode material for lithium ion batteries. Journal of Power Sources, 1999, 83, 156-161.	7.8	131
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