Yong-Yao Xia

List of Publications by Year
in descending order

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Version: 2024-02-01

270	28,865	5876	5806
papers	citations	81 h-index	161 g-index

276	276	276	22264
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrochemical capacitors: mechanism, materials, systems, characterization and applications. Chemical Society Reviews, 2016, 45, 5925-5950.	18.7	2,969
2	Polyaniline-intercalated manganese dioxide nanolayers as a high-performance cathode material for an aqueous zinc-ion battery. Nature Communications, 2018, 9, 2906.	5.8	1,036
3	A Controllable Synthesis of Rich Nitrogenâ€Doped Ordered Mesoporous Carbon for CO₂ Capture and Supercapacitors. Advanced Functional Materials, 2013, 23, 2322-2328.	7.8	861
4	Raising the cycling stability of aqueous lithium-ion batteries by eliminating oxygen in the electrolyte. Nature Chemistry, 2010, 2, 760-765.	6.6	810
5	Ti-based compounds as anode materials for Li-ion batteries. Energy and Environmental Science, 2012, 5, 6652.	15.6	775
6	A Metal-Organic Framework Host for Highly Reversible Dendrite-free Zinc Metal Anodes. Joule, 2019, 3, 1289-1300.	11.7	672
7	Highly Reversible Zn Anode Enabled by Controllable Formation of Nucleation Sites for Znâ€Based Batteries. Advanced Functional Materials, 2020, 30, 1908528.	7.8	523
8	Recent Progress in Aqueous Lithiumâ€Ion Batteries. Advanced Energy Materials, 2012, 2, 830-840.	10.2	486
9	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. Angewandte Chemie - International Edition, 2018, 57, 11737-11741.	7.2	425
10	Recent Progress of Rechargeable Batteries Using Mild Aqueous Electrolytes. Small Methods, 2019, 3, 1800272.	4.6	387
11	Carbon-coated nano-sized Li4Ti5O12 nanoporous micro-sphere as anode material for high-rate lithium-ion batteries. Energy and Environmental Science, 2011, 4, 4016.	15.6	366
12	A Selfâ€Template Strategy for the Synthesis of Mesoporous Carbon Nanofibers as Advanced Supercapacitor Electrodes. Advanced Energy Materials, 2011, 1, 382-386.	10.2	359
13	Controllable Synthesis of Mesoporous Peapodâ€like Co₃O₄@Carbon Nanotube Arrays for Highâ€Performance Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 7060-7064.	7.2	355
14	Solâ€“Gel Design Strategy for Ultradispersed TiO₂ Nanoparticles on Graphene for High-Performance Lithium Ion Batteries. Journal of the American Chemical Society, 2013, 135, 18300-18303.	6.6	348
15	A comprehensive study on KOH activation of ordered mesoporous carbons and their supercapacitor application. Journal of Materials Chemistry, 2012, 22, 93-99.	6.7	343
16	Separating hydrogen and oxygen evolution in alkaline water electrolysis using nickel hydroxide. Nature Communications, 2016, 7, 11741.	5.8	332
17	Challenges, mitigation strategies and perspectives in development of zinc-electrode materials and fabrication for rechargeable zincâ€“air batteries. Energy and Environmental Science, 2018, 11, 3075-3095.	15.6	324
18	Recent Advances in Polymer Electrolytes for Zinc Ion Batteries: Mechanisms, Properties, and Perspectives. Advanced Energy Materials, 2020, 10, 1903977.	10.2	309

#	Article	IF	Citations
19	Flexible and Wireâ€Shaped Microâ€Supercapacitor Based on Ni(OH)₂â€Nanowire and Ordered Mesoporous Carbon Electrodes. Advanced Functional Materials, 2014, 24, 3405-3412.	7.8	304
20	Ordered Hierarchical Mesoporous/Macroporous Carbon: A Highâ€Performance Catalyst for Rechargeable Liâ€“O₂ Batteries. Advanced Materials, 2013, 25, 5668-5672.	11.1	297
21	Progress in Aqueous Rechargeable Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1703008.	10.2	297
22	Organic Batteries Operated at â¯70Â°C. Joule, 2018, 2, 902-913.	11.7	289
23	Environmentally-friendly aqueous Li (or Na)-ion battery with fast electrode kinetics and super-long life. Science Advances, 2016, 2, e1501038.	4.7	282
24	General Strategy to Synthesize Uniform Mesoporous TiO₂/Graphene/Mesoporous TiO₂ Sandwich-Like Nanosheets for Highly Reversible Lithium Storage. Nano Letters, 2015, 15, 2186-2193.	4.5	273
25	Suppressing the Phase Transition of the Layered Ni-Rich Oxide Cathode during High-Voltage Cycling by Introducing Low-Content Li₂MnO₃. ACS Applied Materials & Interfaces, 2016, 8, 1297-1308.	4.0	273
26	Scalable production of high-performing woven lithium-ion fibre batteries. Nature, 2021, 597, 57-63.	13.7	270
27	Highly ordered mesoporous carbon nanofiber arrays from a crab shell biological template and its application in supercapacitors and fuel cells. Journal of Materials Chemistry, 2010, 20, 4223.	6.7	267
28	Facile synthesis of hierarchically porous Li4Ti5O12 microspheres for high rate lithium ion batteries. Journal of Materials Chemistry, 2010, 20, 6998.	6.7	266
29	Tuning P2-Structured Cathode Material by Na-Site Mg Substitution for Na-Ion Batteries. Journal of the American Chemical Society, 2019, 141, 840-848.	6.6	255
30	General synthesis of carbon-coated nanostructure Li₄Ti₅O₁₂as a high rate electrode material for Li-ion intercalation. Journal of Materials Chemistry, 2010, 20, 595-602.	6.7	249
31	Synergetic Protective Effect of the Ultralight MWCNTs/NCQDs Modified Separator for Highly Stable Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1702288.	10.2	249
32	Ordered Hierarchical Mesoporous/Microporous Carbon Derived from Mesoporous Titaniumâ€Carbide/Carbon Composites and its Electrochemical Performance in Supercapacitor. Advanced Energy Materials, 2011, 1, 1101-1108.	10.2	246
33	Uniform Ordered Two-Dimensional Mesoporous TiO₂ Nanosheets from Hydrothermal-Induced Solvent-Confined Monomicelle Assembly. Journal of the American Chemical Society, 2018, 140, 4135-4143.	6.6	242
34	A high performance lithium-ion sulfur battery based on a Li₂S cathode using a dual-phase electrolyte. Energy and Environmental Science, 2015, 8, 1551-1558.	15.6	230
35	Highâ€Energy Rechargeable Metallic Lithium Battery at â¯70â€‰Â°C Enabled by a Cosolvent Electrolyte. Angewandte Chemie - International Edition, 2019, 58, 5623-5627.	7.2	217
36	Pseudocapacitive materials for electrochemical capacitors: from rational synthesis to capacitance optimization. National Science Review, 2017, 4, 71-90.	4.6	215

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37	Layered H₂Ti₆O₁₃â€Nanowires: A New Promising Pseudocapacitive Material in Nonâ€Aqueous Electrolyte. Advanced Functional Materials, 2012, 22, 5185-5193.	7.8	213
38	Preparation of three-dimensional ordered mesoporous carbon sphere arrays by a two-step templating route and their application for supercapacitors. Journal of Materials Chemistry, 2009, 19, 3661.	6.7	204
39	To mitigate self-discharge of lithiumâ€“sulfur batteries by optimizing ionic liquid electrolytes. Energy and Environmental Science, 2016, 9, 224-231.	15.6	196
40	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. CheM, 2017, 3, 348-362.	5.8	194
41	A PEO-based gel polymer electrolyte for lithium ion batteries. RSC Advances, 2017, 7, 23494-23501.	1.7	186
42	In situ encapsulation of coreâ€“shell-structured Co@Co₃O₄ into nitrogen-doped carbon polyhedra as a bifunctional catalyst for rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2018, 6, 1443-1453.	5.2	178
43	Hybrid Aqueous Energy Storage Cells Using Activated Carbon and Lithium-Ion Intercalated Compounds. Journal of the Electrochemical Society, 2006, 153, A1425.	1.3	162
44	Grapheneâ€Supported Nitrogen and Boron Rich Carbon Layer for Improved Performance of Lithiumâ€“Sulfur Batteries Due to Enhanced Chemisorption of Lithium Polysulfides. Advanced Energy Materials, 2016, 6, 1501733.	10.2	162
45	An organic/inorganic electrode-based hydronium-ion battery. Nature Communications, 2020, 11, 959.	5.8	157
46	A Rechargeable Liâ€CO₂ Battery with a Gel Polymer Electrolyte. Angewandte Chemie - International Edition, 2017, 56, 9126-9130.	7.2	154
47	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. Angewandte Chemie, 2018, 130, 11911-11915.	1.6	151
48	Flexible Aqueous Lithiumâ€Ion Battery with High Safety and Large Volumetric Energy Density. Angewandte Chemie - International Edition, 2016, 55, 7474-7477.	7.2	149
49	Improving the electrochemical performance of layered lithium-rich transition-metal oxides by controlling the structural defects. Energy and Environmental Science, 2014, 7, 705-714.	15.6	136
50	Double-Nanocarbon Synergistically Modified Na₃V₂(PO₄)₃: An Advanced Cathode for High-Rate and Long-Life Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 15341-15351.	4.0	133
51	LiMn₂O₄ Nanorods, Nanothorn Microspheres, and Hollow Nanospheres as Enhanced Cathode Materials of Lithium Ion Battery. Journal of Physical Chemistry C, 2008, 112, 12051-12057.	1.5	129
52	A nitrogen-doped ordered mesoporous carbon nanofiber array for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 8488.	5.2	128
53	A Longâ€Life Lithiumâ€“Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. Angewandte Chemie - International Edition, 2017, 56, 7505-7509.	7.2	124
54	Organic Cathode Materials for Rechargeable Zinc Batteries: Mechanisms, Challenges, and Perspectives. ChemSusChem, 2020, 13, 2160-2185.	3.6	121

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55	The effect of oxygen pressures on the electrochemical profile of lithium/oxygen battery. Journal of Solid State Electrochemistry, 2010, 14, 109-114.	1.2	118
56	Regulating Zn Deposition via an Artificial Solidâ€“Electrolyte Interface with Aligned Dipoles for Long Life Zn Anode. Nano-Micro Letters, 2021, 13, 79.	14.4	117
57	General synthesis of xLi2MnO3Â·(1 â^' x)LiMn1/3Ni1/3Co1/3O2 nanomaterials by a molten-salt method: towards a high capacity and high power cathode for rechargeable lithium batteries. Journal of Materials Chemistry, 2012, 22, 25380.	6.7	115
58	Carbon quantum dots anchoring MnO 2 /graphene aerogel exhibits excellent performance as electrode materials for supercapacitor. Journal of Power Sources, 2018, 398, 167-174.	4.0	114
59	The development in aqueous lithium-ion batteries. Journal of Energy Chemistry, 2018, 27, 1521-1535.	7.1	114
60	Bendingâ€Tolerant Anodes for Lithiumâ€Metal Batteries. Advanced Materials, 2018, 30, 1703891.	11.1	113
61	Overall structural modification of a layered Ni-rich cathode for enhanced cycling stability and rate capability at high voltage. Journal of Materials Chemistry A, 2019, 7, 6080-6089.	5.2	112
62	Allâ€Organic Rechargeable Battery with Reversibility Supported by â€œWaterâ€inâ€Saltâ€•Electrolyte. Chemistry - A European Journal, 2017, 23, 2560-2565.	1.7	111
63	Industrial scale production of fibre batteries by a solution-extrusion method. Nature Nanotechnology, 2022, 17, 372-377.	15.6	110
64	SnSb@carbon nanocable anchored on graphene sheets for sodium ion batteries. Nano Research, 2014, 7, 1466-1476.	5.8	108
65	Leafâ€Like Grapheneâ€Oxideâ€Wrapped Sulfur for Highâ€Performance Lithiumâ€“Sulfur Battery. Advanced Science, 2015, 2, 1500071.	5.6	108
66	Wholeâ€Voltageâ€Range Oxygen Redox in P2â€Layered Cathode Materials for Sodiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2008194.	11.1	108
67	Enabling Mg metal anodes rechargeable in conventional electrolytes by fast ionic transport interphase. National Science Review, 2020, 7, 333-341.	4.6	104
68	Polyimide as anode electrode material for rechargeable sodium batteries. RSC Advances, 2014, 4, 25369-25373.	1.7	102
69	Enhancement on the Cycling Stability of the Layered Ni-Rich Oxide Cathode by In-Situ Fabricating Nano-Thickness Cation-Mixing Layers. Journal of the Electrochemical Society, 2016, 163, A2665-A2672.	1.3	101
70	In situ structural evolution of the multi-site alloy electrocatalyst to manipulate the intermediate for enhanced water oxidation reaction. Energy and Environmental Science, 2020, 13, 2200-2208.	15.6	101
71	Efficient Oxygen Electrocatalyst for Znâ€“Air Batteries: Carbon Dots and Co₉S₈ Nanoparticles in a N,S-Codoped Carbon Matrix. ACS Applied Materials & Interfaces, 2019, 11, 14085-14094.	4.0	96
72	Recent Progress in Polyanionic Anode Materials for Li (Na)-Ion Batteries. Electrochemical Energy Reviews, 2021, 4, 447-472.	13.1	96

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73	In Situ Growth of NiFe Alloy Nanoparticles Embedded into N-Doped Bamboo-like Carbon Nanotubes as a Bifunctional Electrocatalyst for Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2018, 10, 26178-26187.	4.0	94
74	Li₂TiSiO₅: a low potential and large capacity Ti-based anode material for Li-ion batteries. Energy and Environmental Science, 2017, 10, 1456-1464.	15.6	93
75	ZnO@silica coreâ€“shell nanoparticles with remarkable luminescence and stability in cell imaging. Journal of Materials Chemistry, 2012, 22, 13159.	6.7	91
76	Promoting Rechargeable Batteries Operated at Low Temperature. Accounts of Chemical Research, 2021, 54, 3883-3894.	7.6	91
77	A versatile single-ion electrolyte with a Grotthuss-like Li conduction mechanism for dendrite-free Li metal batteries. Energy and Environmental Science, 2019, 12, 2741-2750.	15.6	89
78	Anchoring an Artificial Solidâ€“Electrolyte Interphase Layer on a 3D Current Collector for Highâ€Performance Lithium Anodes. Angewandte Chemie - International Edition, 2019, 58, 2093-2097.	7.2	89
79	Flake Cu-Sn Alloys as Negative Electrode Materials for Rechargeable Lithium Batteries. Journal of the Electrochemical Society, 2001, 148, A471.	1.3	87
80	Ordered mesoporous graphitized pyrolytic carbon materials: synthesis, graphitization, and electrochemical properties. Journal of Materials Chemistry, 2012, 22, 8835.	6.7	87
81	Bioâ€Inspired Stable Lithiumâ€Metal Anodes by Coâ€depositing Lithium with a 2D Vermiculite Shuttle. Angewandte Chemie - International Edition, 2019, 58, 6200-6206.	7.2	87
82	Decoupling Hydrogen and Oxygen Production in Acidic Water Electrolysis Using a Polytriphenylamineâ€Based Battery Electrode. Angewandte Chemie - International Edition, 2018, 57, 2904-2908.	7.2	86
83	Binary Li₄Ti₅O₁₂â€Li₂Ti₃O₇ Nanocomposite as an Anode Material for Liâ€Ion Batteries. Advanced Functional Materials, 2013, 23, 640-647.	7.8	83
84	LiMn2O4 hollow nanosphere electrode material with excellent cycling reversibility and rate capability. Electrochemistry Communications, 2007, 9, 1404-1409.	2.3	82
85	Improved electrochemical reversibility of Zn plating/stripping: a promising approach to suppress water-induced issues through the formation of H-bonding. Materials Today Energy, 2020, 18, 100563.	2.5	82
86	Lowâ€Temperature Charge/Discharge of Rechargeable Battery Realized by Intercalation Pseudocapacitive Behavior. Advanced Science, 2020, 7, 2000196.	5.6	82
87	Monoclinic Phase Na₃Fe₂(PO₄)₃: Synthesis, Structure, and Electrochemical Performance as Cathode Material in Sodium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2017, 5, 1306-1314.	3.2	81
88	Carbon Quantum Dot-Induced MnO₂ Nanowire Formation and Construction of a Binder-Free Flexible Membrane with Excellent Superhydrophilicity and Enhanced Supercapacitor Performance. ACS Applied Materials & Interfaces, 2017, 9, 40394-40403.	4.0	81
89	Advanced Electrolyte Design for Highâ€Energyâ€Density Liâ€Metal Batteries under Practical Conditions. Angewandte Chemie - International Edition, 2021, 60, 25624-25638.	7.2	81
90	Revisiting the designing criteria of advanced solid electrolyte interphase on lithium metal anode under practical condition. Nano Energy, 2021, 83, 105847.	8.2	79

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91	Graphite Intercalation Compounds (GICs): A New Type of Promising Anode Material for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2014, 4, 1300600.	10.2	78
92	Improving the Cycling Performance of the Layered Ni-Rich Oxide Cathode by Introducing Low-Content Li 2 MnO 3. Electrochimica Acta, 2016, 189, 101-110.	2.6	78
93	Stabilized Rechargeable Aqueous Zinc Batteries Using Ethylene Glycol as Water Blocker. ChemSusChem, 2020, 13, 5556-5564.	3.6	78
94	Nickel and cobalt Co-substituted spinel ZnMn2O4@N-rGO for increased capacity and stability as a cathode material for rechargeable aqueous zinc-ion battery. Electrochimica Acta, 2020, 331, 135296.	2.6	77
95	A clean and membrane-free chlor-alkali process with decoupled Cl2 and H2/NaOH production. Nature Communications, 2018, 9, 438.	5.8	76
96	Sandwich, Verticalâ€Channeled Thick Electrodes with High Rate and Cycle Performance. Advanced Functional Materials, 2019, 29, 1809196.	7.8	76
97	High areal loading and long-life cycle stability of lithium-sulfur batteries achieved by a dual-function ZnS-modified separator. Chemical Engineering Journal, 2020, 390, 124653.	6.6	76
98	Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. ACS Applied Materials & Interfaces, 2019, 11, 20796-20803.	4.0	75
99	Graphene/silk fibroin based carbon nanocomposites for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 773-781.	5.2	74
100	Redox mediators as charge agents for changing electrochemical reactions. Chemical Society Reviews, 2020, 49, 7454-7478.	18.7	73
101	A lithium air battery with a lithiated Alâ€“carbon anode. Chemical Communications, 2015, 51, 676-678.	2.2	72
102	Building an Interfacial Framework: Li/Garnet Interface Stabilization through a Cu₆Sn₅ Layer. ACS Energy Letters, 2019, 4, 1725-1731.	8.8	71
103	First-Principles Study of H⁺ Intercalation in Layer-Structured LiCoO₂. Journal of Physical Chemistry C, 2011, 115, 12672-12676.	1.5	70
104	Water-stable blue-emitting ZnO@polymer coreâ€“shell microspheres. Journal of Materials Chemistry, 2007, 17, 2490-2496.	6.7	69
105	Stabilizing Solid Electrolyte Interphases on Both Anode and Cathode for High Areal Capacity, Highâ€Voltage Lithium Metal Batteries with High Li Utilization and Lean Electrolyte. Advanced Functional Materials, 2020, 30, 2002824.	7.8	69
106	Multiwall carbon nanotube@mesoporous carbon with core-shell configuration: a well-designed composite-structure toward electrochemical capacitor application. Journal of Materials Chemistry, 2011, 21, 13025.	6.7	68
107	High-voltage aqueous battery approaching 3 V using an acidicâ€“alkaline double electrolyte. Chemical Communications, 2013, 49, 2204.	2.2	67
108	Ordered hierarchical mesoporous/microporous carbon with optimized pore structure for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 1192-1200.	5.2	67

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109	A Simple Prelithiation Strategy To Build a Highâ€Rate and Longâ€Life Lithiumâ€Ion Battery with Improved Lowâ€Temperature Performance. Angewandte Chemie - International Edition, 2017, 56, 16606-16610.	7.2	67
110	Ultra-long Na₂Ti₃O₇ nanowires@carbon cloth as a binder-free flexible electrode with a large capacity and long lifetime for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 17111-17120.	5.2	65
111	A direct borohydride fuel cell using MnO2-catalyzed cathode and hydrogen storage alloy anode. Electrochemistry Communications, 2006, 8, 1775-1778.	2.3	64
112	Ruthenium oxide coated ordered mesoporous carbon nanofiber arrays: a highly bifunctional oxygen electrocatalyst for rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2016, 4, 6282-6289.	5.2	63
113	Rose-like vanadium disulfide coated by hydrophilic hydroxyvanadium oxide with improved electrochemical performance as cathode material for aqueous zinc-ion batteries. Journal of Power Sources, 2019, 437, 226917.	4.0	63
114	Stable polymer electrolytes based on polyether-grafted ZnO nanoparticles for all-solid-state lithium batteries. Journal of Materials Chemistry, 2006, 16, 1345.	6.7	62
115	Symmetric Sodium-Ion Capacitor Based on Na_{0.44}MnO₂ Nanorods for Low-Cost and High-Performance Energy Storage. ACS Applied Materials & Interfaces, 2018, 10, 11689-11698.	4.0	62
116	A New Polyanion Na₃Fe₂(PO₄)P₂O₇ Cathode with High Electrochemical Performance for Sodium-Ion Batteries. ACS Energy Letters, 2020, 5, 3788-3796.	8.8	62
117	A flexible symmetric sodium full cell constructed using the bipolar material Na₃V₂(PO₄)₃. Journal of Materials Chemistry A, 2017, 5, 8440-8450.	5.2	61
118	Fluorinated carboxylate ester-based electrolyte for lithium ion batteries operated at low temperature. Chemical Communications, 2020, 56, 9640-9643.	2.2	61
119	Recent Progress of Porous Materials in Lithiumâ€Metal Batteries. Small Structures, 2021, 2, 2000118.	6.9	61
120	Low-cost and high-performance of a vertically grown 3D Niâ€“Fe layered double hydroxide/graphene aerogel supercapacitor electrode material. RSC Advances, 2016, 6, 107278-107285.	1.7	60
121	A flexible polymer-based Liâ€“air battery using a reduced graphene oxide/Li composite anode. Journal of Materials Chemistry A, 2018, 6, 6022-6032.	5.2	59
122	Creating an Airâ€Stable Sulfurâ€Doped Black Phosphorusâ€TiO₂ Composite as Highâ€Performance Anode Material for Sodiumâ€Ion Storage. Advanced Functional Materials, 2019, 29, 1900535.	7.8	57
123	A hybrid nonaqueous electrochemical supercapacitor using nano-sized iron oxyhydroxide and activated carbon. Journal of Solid State Electrochemistry, 2006, 10, 405-410.	1.2	56
124	Low-cost and high safe manganese-based aqueous battery for grid energy storage and conversion. Science Bulletin, 2019, 64, 1780-1787.	4.3	56
125	Organic Protonâ€Buffer Electrode to Separate Hydrogen and Oxygen Evolution in Acid Water Electrolysis. Angewandte Chemie - International Edition, 2019, 58, 4622-4626.	7.2	56
126	Scalable synthesizing nanospherical Na4Fe3(PO4)2(P2O7) growing on MCNTs as a high-performance cathode material for sodium-ion batteries. Journal of Power Sources, 2020, 461, 228130.	4.0	55

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127	TiP₂O₇ and Expanded Graphite Nanocomposite as Anode Material for Aqueous Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 8075-8082.	4.0	54
128	Ultrasmall TiO₂-Coated Reduced Graphene Oxide Composite as a High-Rate and Long-Cycle-Life Anode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 14818-14826.	4.0	54
129	A Desolvationâ€Free Sodium Dualâ€Ion Chemistry for High Power Density and Extremely Low Temperature. Angewandte Chemie - International Edition, 2021, 60, 23858-23862.	7.2	54
130	Cubic Manganese Potassium Hexacyanoferrate Regulated by Controlling of the Water and Defects as a High-Capacity and Stable Cathode Material for Rechargeable Aqueous Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 26924-26935.	4.0	53
131	Cycling Stability of Spinel LiMn 2 O 4 with Different Particle Sizes in Aqueous Electrolyte. Electrochimica Acta, 2015, 173, 178-183.	2.6	52
132	Carbon-coated Li₄Ti₅O₁₂ nanoparticles with high electrochemical performance as anode material in sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 10902-10908.	5.2	52
133	Highâ€Energy Rechargeable Metallic Lithium Battery at â^'70â€‰Â°C Enabled by a Cosolvent Electrolyte. Angewandte Chemie, 2019, 131, 5679-5683.	1.6	52
134	Extended low-voltage plateau capacity of hard carbon spheres anode for sodium ion batteries. Journal of Power Sources, 2020, 476, 228550.	4.0	52
135	An agent for change. Nature Chemistry, 2013, 5, 445-447.	6.6	51
136	High Capacity and Cycle-Stable Hard Carbon Anode for Nonflammable Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 38141-38150.	4.0	51
137	A Longâ€Life Lithiumâ€“Air Battery in Ambient Air with a Polymer Electrolyte Containing a Redox Mediator. Angewandte Chemie, 2017, 129, 7613-7617.	1.6	50
138	Molecular Design Strategy for Ordered Mesoporous Stoichiometric Metal Oxide. Angewandte Chemie - International Edition, 2019, 58, 15863-15868.	7.2	50
139	In-situ growth of vertically aligned MoS2 nanowalls on reduced graphene oxide enables a large capacity and highly stable anode for sodium ion storage. Journal of Power Sources, 2020, 445, 227271.	4.0	50
140	Decoupled amphoteric water electrolysis and its integration with Mnâ€“Zn battery for flexible utilization of renewables. Energy and Environmental Science, 2021, 14, 883-889.	15.6	49
141	Ammonium-ion batteries with a wide operating temperature window from â^'40 to 80Ââ€‹Â°C. EScience, 2021, 1, 212-218.	25.0	49
142	Towards high-performance aqueous zinc-ion battery via cesium ion intercalated vanadium oxide nanorods. Chemical Engineering Journal, 2022, 442, 136349.	6.6	49
143	Coreâ€“shell carbon-coated Cu6Sn5 prepared by in situ polymerization as a high-performance anode material for lithium-ion batteries. Journal of Materials Chemistry, 2009, 19, 7202.	6.7	48
144	Photoluminescent ZnO nanoparticles synthesized at the interface between air and triethylene glycol. Journal of Materials Chemistry, 2011, 21, 3178.	6.7	48

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145	Ordered mesoporous/microporous carbon sphere arrays derived from chlorination of mesoporous TiC/C composite and their application for supercapacitors. Journal of Materials Chemistry, 2012, 22, 1937-1943.	6.7	47
146	Zn₄Sb₃ Nanotubes as Lithium Ion Battery Anodes with High Capacity and Cycling Stability. Advanced Energy Materials, 2013, 3, 286-289.	10.2	46
147	Toward high energy-density and long cycling-lifespan lithium ion capacitors: a 3D carbon modified low-potential Li₂TiSiO₅ anode coupled with a lignin-derived activated carbon cathode. Journal of Materials Chemistry A, 2019, 7, 8234-8244.	5.2	46
148	Sandwich-like Cr₂O₃â€“graphite intercalation composites as high-stability anode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 1703-1708.	5.2	45
149	CNT-Decorated Na₄Mn₂Co(PO₄)₂P₂O₇ Microspheres as a Novel High-Voltage Cathode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 27813-27822.	4.0	44
150	Highly Stable Na₃Fe₂(PO₄)₃@Hard Carbon Sodium-Ion Full Cell for Low-Cost Energy Storage. ACS Sustainable Chemistry and Engineering, 2020, 8, 1380-1387.	3.2	44
151	All-solid-state secondary lithium battery using solid polymer electrolyte and anthraquinone cathode. Solid State Ionics, 2017, 300, 114-119.	1.3	43
152	A high voltage cathode of Na_{2+2x}Fe_{2â”x}(SO₄)₃intensively protected by nitrogen-doped graphene with improved electrochemical performance of sodium storage. Journal of Materials Chemistry A, 2018, 6, 4354-4364.	5.2	43
153	Dual Lithiophilic Structure for Uniform Li Deposition. ACS Applied Materials & Interfaces, 2019, 11, 10616-10623.	4.0	43
154	An All-Solid-State Sodiumâ€“Sulfur Battery Using a Sulfur/Carbonized Polyacrylonitrile Composite Cathode. ACS Applied Energy Materials, 2019, 2, 5263-5271.	2.5	42
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