

Xin-Bo Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Overcharge to Remove Cathode Passivation Layer for Reviving Failed Li ⁺ O ₂ Batteries. CCS Chemistry, 2023, 5, 641-653.	7.8	2
2	Creation of a rigid host framework with optimum crystal structure and interface for zero-strain K-ion storage. Energy and Environmental Science, 2022, 15, 1529-1535.	30.8	12
3	A Low-Volatile and Durable Deep Eutectic Electrolyte for High-Performance Lithium ⁺ Oxygen Battery. Journal of the American Chemical Society, 2022, 144, 5827-5833.	13.7	39
4	Soluble and Perfluorinated Polyelectrolyte for Safe and High-Performance Li ⁺ O ₂ Batteries. Angewandte Chemie, 2022, 134, .	2.0	4
5	Three Birds with One Stone: An Integrated Cathode ⁺ Electrolyte Structure for High-Performance Solid ⁺ State Lithium ⁺ Oxygen Batteries. Small, 2022, 18, e2107833.	10.0	11
6	Soluble and Perfluorinated Polyelectrolyte for Safe and High-Performance Li ⁺ O ₂ Batteries. Angewandte Chemie - International Edition, 2022, 61, e202116635.	13.8	28
7	Hydrogen ⁺ Bond ⁺ Assisted Solution Discharge in Aprotic Li ⁺ O ₂ Batteries. Advanced Materials, 2022, 34, e2110416.	21.0	24
8	Ligand centered electrocatalytic efficient CO ₂ reduction reaction at low overpotential on single-atom Ni regulated molecular catalyst. Nano Research, 2022, 15, 5816-5823.	10.4	11
9	Decoupled aqueous batteries using pH-decoupling electrolytes. Nature Reviews Chemistry, 2022, 6, 505-517.	30.2	44
10	Hybrid solid electrolyte enabled dendrite-free Li anodes for high-performance quasi-solid-state lithium-oxygen batteries. National Science Review, 2021, 8, nwa150.	9.5	41
11	Lithium ⁺ Air Batteries: Air-Electrochemistry and Anode Stabilization. Accounts of Chemical Research, 2021, 54, 632-641.	15.6	104
12	Solvation Effect on the Improved Sodium Storage Performance of Na ⁺ Heteropentacenequinone for Sodium ⁺ Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 26806-26812.	13.8	26
13	Recent progress on transition metal oxides as advanced materials for energy conversion and storage. Energy Storage Materials, 2021, 42, 317-369.	18.0	113
14	Integrated Bismuth Oxide Ultrathin Nanosheets/Carbon Foam Electrode for Highly Selective and Energy ⁺ Efficient Electrocatalytic Conversion of CO ₂ to HCOOH. Chemistry - A European Journal, 2020, 26, 4013-4018.	3.3	21
15	Flexible 1D Batteries: Recent Progress and Prospects. Advanced Materials, 2020, 32, e1901961.	21.0	111
16	Challenges and perspectives for manganese ⁺ based oxides for advanced aqueous zinc ⁺ ion batteries. Informa ⁺ Materials, 2020, 2, 237-260.	17.3	264
17	High ⁺ Capacity and Stable Li ⁺ O ₂ Batteries Enabled by a Trifunctional Soluble Redox Mediator. Angewandte Chemie - International Edition, 2020, 59, 19311-19319.	13.8	62
18	Copper tetrazolate based metal ⁺ organic frameworks as highly efficient catalysts for artificially chemical and electrochemical CO ₂ conversion. Nano Select, 2020, 1, 311-319.	3.7	17

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19	A renaissance of N,N -dimethylacetamide-based electrolytes to promote the cycling stability of LiO_2 batteries. Energy and Environmental Science, 2020, 13, 3075-3081.	30.8	68
20	In Situ Designing a Gradient Li^{+} Capture and Quasi-Spontaneous Diffusion Anode Protection Layer toward Long-Life LiO_2 Batteries. Advanced Materials, 2020, 32, e2004157.	21.0	114
21	High-Capacity and Stable LiO_2 Batteries Enabled by a Trifunctional Soluble Redox Mediator. Angewandte Chemie, 2020, 132, 19473-19481.	2.0	28
22	Lithium and Stannum Hybrid Anodes for Flexible Wire-Type Lithium-Oxygen Batteries. Small Structures, 2020, 1, 2000015.	12.0	26
23	Electrode Protection in High-Efficiency LiO_2 Batteries. ACS Central Science, 2020, 6, 2136-2148.	11.3	62
24	The Stabilization Effect of CO_2 in Lithium-Oxygen/ CO_2 Batteries. Angewandte Chemie - International Edition, 2020, 59, 16661-16667.	13.8	71
25	Interface between Lithium Metal and Garnet Electrolyte: Recent Progress and Perspective. Batteries and Supercaps, 2020, 3, 1006-1015.	4.7	17
26	The Stabilization Effect of CO_2 in Lithium-Oxygen/ CO_2 Batteries. Angewandte Chemie, 2020, 132, 16804.	2.0	6
27	An Adjustable Porosity Plastic Crystal Electrolyte Enables High-Performance All-Solid-State Lithium-Oxygen Batteries. Angewandte Chemie, 2020, 132, 9468-9473.	2.0	13
28	An Adjustable Porosity Plastic Crystal Electrolyte Enables High-Performance All-Solid-State Lithium-Oxygen Batteries. Angewandte Chemie - International Edition, 2020, 59, 9382-9387.	13.8	50
29	Ethnopharmacology of Hypericum species in China: A comprehensive review on ethnobotany, phytochemistry and pharmacology. Journal of Ethnopharmacology, 2020, 254, 112686.	4.1	69
30	Structural Optimization of Metal Oxyhalide for CO_2 Reduction with High Selectivity and Current Density. Chinese Journal of Chemistry, 2020, 38, 1752-1756.	4.9	8
31	An Illumination-Assisted Flexible Self-Powered Energy System Based on a LiO_2 Battery. Angewandte Chemie - International Edition, 2019, 58, 16411-16415.	13.8	78
32	Protecting the Lithium Metal Anode for a Safe Flexible Lithium-Air Battery in Ambient Air. Angewandte Chemie - International Edition, 2019, 58, 18240-18245.	13.8	81
33	Silver-Intermediated Perovskite $La_{0.9}FeO_{3-\delta}$ toward High-Performance Cathode Catalysts for Nonaqueous Lithium-Oxygen Batteries. ACS Catalysis, 2019, 9, 11743-11752.	11.2	46
34	In Situ Coupling of Colloidal Silica and Li Salt Anion toward Stable Li Anode for Long-Cycle-Life Li-O ₂ Batteries. Matter, 2019, 1, 881-892.	10.0	33
35	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. Angewandte Chemie - International Edition, 2019, 58, 9464-9469.	13.8	226
36	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. Angewandte Chemie, 2019, 131, 9564-9569.	2.0	47

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37	Highly efficient and selective CO ₂ electro-reduction with atomic Fe-C-N hybrid coordination on porous carbon nanosheet. Nano Research, 2019, 12, 2318-2323.	10.4	45
38	Reconstructed Orthorhombic V ₂ O ₅ Polyhedra for Fast Ion Diffusion in K-Ion Batteries. Chem, 2019, 5, 168-179.	11.7	174
39	Prevention of dendrite growth and volume expansion to give high-performance aprotic bimetallic Li-Na alloy-O ₂ batteries. Nature Chemistry, 2019, 11, 64-70.	13.6	265
40	Designing a self-healing protective film on a lithium metal anode for long-cycle-life lithium-oxygen batteries. Energy Storage Materials, 2019, 18, 382-388.	18.0	83
41	Alkali Metal Anodes for Rechargeable Batteries. Chem, 2019, 5, 313-338.	11.7	170
42	N-doped C@Zn ₃ B ₂ O ₆ as a Low Cost and Environmentally Friendly Anode Material for Na-Ion Batteries: High Performance and New Reaction Mechanism. Advanced Materials, 2019, 31, e1805432.	21.0	72
43	Imine-Rich Poly(4-phenylenediamine) as High-Capacity Trifunctional Organic Electrode for Alkali-Ion Batteries. CCS Chemistry, 2019, 1, 365-372.	7.8	40
44	Anchoring Iron-EDTA Complex on Graphene toward the Synthesis of Highly Efficient Fe-N Oxygen Reduction Electrocatalyst for Fuel Cells. Chinese Journal of Chemistry, 2018, 36, 287-292.	4.9	22
45	High-Energy-Density Flexible Potassium-Ion Battery Based on Patterned Electrodes. Joule, 2018, 2, 736-746.	24.0	199
46	Decorating carbon nanofibers with Mo ₂ C nanoparticles towards hierarchically porous and highly catalytic cathode for high-performance Li-O ₂ batteries. Science Bulletin, 2018, 63, 433-440.	9.0	33
47	Superior Oxygen Reduction Electrocatalyst: Hollow Porous Spinel Microsphere. Chem, 2018, 4, 196-198.	11.7	34
48	Hybrid electrolyte with robust garnet-ceramic electrolyte for lithium anode protection in lithium-oxygen batteries. Nano Research, 2018, 11, 3434-3441.	10.4	49
49	Suppressing Sodium Dendrites by Multifunctional Polyvinylidene Fluoride (PVDF) Interlayers with Nonthrough Pores and High Flux/Affinity of Sodium Ions toward Long Cycle Life Sodium Oxygen Batteries. Advanced Functional Materials, 2018, 28, 1703931.	14.9	54
50	Photoinduced decoration of NiO nanosheets/Ni foam with Pd nanoparticles towards a carbon-free and self-standing cathode for a lithium-oxygen battery with a low overpotential and long cycle life. Materials Horizons, 2018, 5, 298-302.	12.2	27
51	Blood-Capillary-Inspired, Free-Standing, Flexible, and Low-Cost Super-Hydrophobic N-CNTs@SS Cathodes for High-Capacity, High-Rate, and Stable Li-Air Batteries. Advanced Energy Materials, 2018, 8, 1702242.	19.5	108
52	Complete Dehydrogenation of N ₂ H ₄ BH ₃ over Noble-Metal-Free Ni _{0.5} Fe _{0.5} -CeO _x /MIL-101 with High Activity and 100% H ₂ Selectivity. Advanced Energy Materials, 2018, 8, 1800625.	19.5	44
53	Functional and stability orientation synthesis of materials and structures in aprotic Li-O ₂ batteries. Chemical Society Reviews, 2018, 47, 2921-3004.	38.1	282
54	Engineering Ultrathin C ₃ N ₄ Quantum Dots on Graphene as a Metal-Free Water Reduction Electrocatalyst. ACS Catalysis, 2018, 8, 3965-3970.	11.2	130

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55	Advanced catalysts for sustainable hydrogen generation and storage via hydrogen evolution and carbon dioxide/nitrogen reduction reactions. <i>Progress in Materials Science</i> , 2018, 92, 64-111.	32.8	195
56	The PVDF-HFP gel polymer electrolyte for Li-O ₂ battery. <i>Solid State Ionics</i> , 2018, 318, 88-94.	2.7	93
57	Three-dimensional interconnected Ni(Fe)OxHy nanosheets on stainless steel mesh as a robust integrated oxygen evolution electrode. <i>Nano Research</i> , 2018, 11, 1294-1300.	10.4	103
58	Non-noble metals applied to solar water splitting. <i>Energy and Environmental Science</i> , 2018, 11, 3128-3156.	30.8	134
59	Recent Progresses and Prospects of Cathode Materials for Non-aqueous Potassium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , 2018, 1, 548-566.	25.5	48
60	Stretchable Electrode Breakthrough: Archimedean Spiral Coil Lithium Anode. <i>Joule</i> , 2018, 2, 1654-1656.	24.0	7
61	P3-type K _{0.32} Fe _{0.35} Mn _{0.65} O ₂ ·0.39H ₂ O: a promising cathode for Na-ion full batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13075-13081.	10.3	22
62	Synthesis of porous and metallic CoB nanosheets towards a highly efficient electrocatalyst for rechargeable Na-O ₂ batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2833-2838.	30.8	33
63	Recent Advances toward the Rational Design of Efficient Bifunctional Air Electrodes for Rechargeable Zn-Air Batteries. <i>Small</i> , 2018, 14, e1703843.	10.0	163
64	In Situ CVD Derived Co-N-C Composite as Highly Efficient Cathode for Flexible Li-O ₂ Batteries. <i>Small</i> , 2018, 14, e1800590.	10.0	64
65	Non-noble-metal bismuth nanoparticle-decorated bismuth vanadate nanoarray photoanode for efficient water splitting. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1799-1804.	5.9	13
66	Organic Carbonyl Compounds for Sodium-Ion Batteries: Recent Progress and Future Perspectives. <i>Chemistry - A European Journal</i> , 2018, 24, 18235-18245.	3.3	65
67	Cation Segregation of A-Site Deficiency Perovskite La _{0.85} FeO ₃ Nanoparticles toward High-Performance Cathode Catalysts for Rechargeable Li-O ₂ Battery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25465-25472.	8.0	31
68	Flexible Metal-Air Batteries: Progress, Challenges, and Perspectives. <i>Small Methods</i> , 2018, 2, 1700231.	8.6	157
69	Achieving of High Density/Utilization of Active Groups via Synergic Integration of C=N and C=O Bonds for Ultra-Stable and High-Rate Lithium-Ion Batteries. <i>Research</i> , 2018, 2018, 1936735.	5.7	28
70	Materials Design and System Construction for Conventional and New-Concept Supercapacitors. <i>Advanced Science</i> , 2017, 4, 1600382.	11.2	365
71	Iron-chelated hydrogel-derived bifunctional oxygen electrocatalyst for high-performance rechargeable Zn-air batteries. <i>Nano Research</i> , 2017, 10, 4436-4447.	10.4	98
72	Decorating Waste Cloth via Industrial Wastewater for Tube-Type Flexible and Wearable Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1603719.	21.0	131

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73	In Situ Construction of Stable Tissueâ€Directed/Reinforced Bifunctional Separator/Protection Film on Lithium Anode for Lithiumâ€Oxygen Batteries. Advanced Materials, 2017, 29, 1606552.	21.0	162
74	Highâ€Performance Integrated Selfâ€Package Flexible Liâ€O ₂ Battery Based on Stable Composite Anode and Flexible Gas Diffusion Layer. Advanced Materials, 2017, 29, 1700378.	21.0	72
75	Reversible Nitrogen Fixation Based on a Rechargeable Lithium-Nitrogen Battery for Energy Storage. Chem, 2017, 2, 525-532.	11.7	146
76	Hydronium Ion Batteries: A Sustainable Energy Storage Solution. Angewandte Chemie - International Edition, 2017, 56, 6378-6380.	13.8	43
77	Hydroniumionenbatterien: eine nachhaltige L�sung zur Energiespeicherung. Angewandte Chemie, 2017, 129, 6476-6478.	2.0	14
78	Transformation of Rusty Stainlessâ€Steel Meshes into Stable, Lowâ€Cost, and Binderâ€Free Cathodes for Highâ€Performance Potassiumâ€Ion Batteries. Angewandte Chemie, 2017, 129, 7989-7993.	2.0	46
79	Recent advances in metalâ€nitrogenâ€carbon catalysts for electrochemical water splitting. Materials Chemistry Frontiers, 2017, 1, 2155-2173.	5.9	109
80	Transformation of Rusty Stainlessâ€Steel Meshes into Stable, Lowâ€Cost, and Binderâ€Free Cathodes for Highâ€Performance Potassiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 7881-7885.	13.8	241
81	Nanoengineered Ultralight and Robust All-Metal Cathode for High-Capacity, Stable Lithiumâ€Oxygen Batteries. ACS Central Science, 2017, 3, 598-604.	11.3	109
82	In Situ Coupling FeM (M = Ni, Co) with Nitrogenâ€Doped Porous Carbon toward Highly Efficient Trifunctional Electrocatalyst for Overall Water Splitting and Rechargeable Znâ€Air Battery. Advanced Sustainable Systems, 2017, 1, 1700020.	5.3	122
83	Composition-tunable synthesis of â€cleanâ€syngas via a one-step synthesis of metal-free pyridinic-N-enriched self-supported CNTs: the synergy of electrocatalyst pyrolysis temperature and potential. Green Chemistry, 2017, 19, 4284-4288.	9.0	53
84	Flexible Electrodes for Sodiumâ€Ion Batteries: Recent Progress and Perspectives. Advanced Materials, 2017, 29, 1703012.	21.0	156
85	Recent Progress in Electrocatalyst for Liâ€O ₂ Batteries. Advanced Energy Materials, 2017, 7, 1700875.	19.5	235
86	Liâ€air batteries: Decouple to stabilize. Nature Energy, 2017, 2, .	39.5	46
87	P3-type K _{0.33} Co _{0.53} Mn _{0.47} O ₂ �0.39H ₂ O: a novel bifunctional electrode for Na-ion batteries. Materials Horizons, 2017, 4, 1122-1127.	12.2	41
88	CeO ₂ @NiCo ₂ O ₄ nanowire arrays on carbon textiles as high performance cathode for Li-O ₂ batteries. Science China Chemistry, 2017, 60, 1540-1545.	8.2	24
89	Electrochemical Reduction of N ₂ under Ambient Conditions for Artificial N ₂ Fixation and Renewable Energy Storage Using N ₂ /NH ₃ Cycle. Advanced Materials, 2017, 29, 1604799.	21.0	969
90	Ultrathin, Lightweight, and Wearable Liâ€O ₂ Battery with High Robustness and Gravimetric/Volumetric Energy Density. Small, 2017, 13, 1602952.	10.0	69

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91	Progress of rechargeable lithium metal batteries based on conversion reactions. National Science Review, 2017, 4, 54-70.	9.5	128
92	Surfactant-free Aqueous Synthesis of Pure Single-crystalline SnSe Nanosheet Clusters as Anode for High Energy and Power Density Sodium-ion Batteries. Advanced Materials, 2017, 29, 1602469.	21.0	231
93	Co-embedded N-doped carbon fibers as highly efficient and binder-free cathode for Na-O ₂ batteries. Energy Storage Materials, 2017, 6, 1-8.	18.0	57
94	Recent Progress on the Development of Metal-Air Batteries. Advanced Sustainable Systems, 2017, 1, 1700036.	5.3	83
95	Green and Facile Fabrication of MWNTs@Sb ₂ S ₃ @PPy Coaxial Nanocables for High-Performance Na-ion Batteries. Particle and Particle Systems Characterization, 2016, 33, 493-499.	2.3	66
96	Cable-type Water-Survivable Flexible Li-O ₂ Battery. Small, 2016, 12, 3101-3105.	10.0	102
97	N,O-codoped porous carbon nanosheets for capacitors with ultra-high capacitance. Science China Materials, 2016, 59, 547-557.	6.3	26
98	Optimized nitrogen-doped carbon with a hierarchically porous structure as a highly efficient cathode for Na-O ₂ batteries. Journal of Materials Chemistry A, 2016, 4, 10008-10013.	10.3	29
99	In situ anchoring of Co ₉ S ₈ nanoparticles on N and S co-doped porous carbon tube as bifunctional oxygen electrocatalysts. NPG Asia Materials, 2016, 8, e308-e308.	7.9	164
100	A binder-free, flexible cathode for rechargeable Na-O ₂ batteries. Chinese Journal of Catalysis, 2016, 37, 1172-1179.	14.0	18
101	A Flexible and Wearable Lithium-Oxygen Battery with Record Energy Density achieved by the Interlaced Architecture inspired by Bamboo Slips. Advanced Materials, 2016, 28, 8413-8418.	21.0	138
102	A Biodegradable Polydopamine-Derived Electrode Material for High-Capacity and Long-Life Lithium-ion and Sodium-ion Batteries. Angewandte Chemie, 2016, 128, 10820-10824.	2.0	131
103	A Biodegradable Polydopamine-Derived Electrode Material for High-Capacity and Long-Life Lithium-ion and Sodium-ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 10662-10666.	13.8	325
104	Cathode Surface-Induced, Solvation-Mediated, Micrometer-Sized Li ₂ O ₂ Cycling for Li-O ₂ Batteries. Advanced Materials, 2016, 28, 9620-9628.	21.0	232
105	In Situ Coupling of Strung Co ₄ N and Intertwined Na-C Fibers toward Free-Standing Bifunctional Cathode for Robust, Efficient, and Flexible Zn-Air Batteries. Journal of the American Chemical Society, 2016, 138, 10226-10231.	13.7	839
106	In Situ Activating Ubiquitous Rust towards Low-Cost, Efficient, Free-Standing, and Recoverable Oxygen Evolution Electrodes. Angewandte Chemie - International Edition, 2016, 55, 9937-9941.	13.8	173
107	In Situ Activating Ubiquitous Rust towards Low-Cost, Efficient, Free-Standing, and Recoverable Oxygen Evolution Electrodes. Angewandte Chemie, 2016, 128, 10091-10095.	2.0	50
108	Reactive Multifunctional Template-Induced Preparation of Fe-Na-Doped Mesoporous Carbon Microspheres Towards Highly Efficient Electrocatalysts for Oxygen Reduction. Advanced Materials, 2016, 28, 7948-7955.	21.0	342

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109	Designing multi-shelled metal oxides: towards high energy-density lithium-ion batteries. Science China Materials, 2016, 59, 521-522.	6.3	12
110	Growth of RuO ₂ -Modified Co ₃ O ₄ Nanosheets on Carbon Textiles toward Flexible and Efficient Cathodes for Flexible Li-O ₂ Batteries. Particle and Particle Systems Characterization, 2016, 33, 500-505.	2.3	33
111	Macroporous Interconnected Hollow Carbon Nanofibers Inspired by Golden Toad Eggs toward a Binder-Free, High-Rate, and Flexible Electrode. Advanced Materials, 2016, 28, 7494-7500.	21.0	162
112	Hybrid Film from Nickel Oxide and Oxygenated Carbon Nanotube as Flexible Electrodes for Pseudocapacitors. ChemNanoMat, 2016, 2, 698-703.	2.8	10
113	Integrated Three-Dimensional Carbon Paper/Carbon Tubes/Cobalt-Sulfide Sheets as an Efficient Electrode for Overall Water Splitting. ACS Nano, 2016, 10, 2342-2348.	14.6	575
114	Integrating 3D Flower-Like Hierarchical Cu ₂ NiSnS ₄ with Reduced Graphene Oxide as Advanced Anode Materials for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 9178-9184.	8.0	64
115	Flexible and Foldable Li-O ₂ Battery Based on Paper-Ink Cathode. Advanced Materials, 2015, 27, 8095-8101.	21.0	117
116	Artificial Protection Film on Lithium Metal Anode toward Long-Cycle-Life Lithium-Oxygen Batteries. Advanced Materials, 2015, 27, 5241-5247.	21.0	439
117	Synergistic Effect between Metal-Nitrogen-Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Water-Oxidation Performance. Angewandte Chemie - International Edition, 2015, 54, 10530-10534.	13.8	301
118	Recent Progress on Stability Enhancement for Cathode in Rechargeable Non-Aqueous Lithium-Oxygen Battery. Advanced Energy Materials, 2015, 5, 1500633.	19.5	128
119	Hierarchical Co ₃ O ₄ porous nanowires as an efficient bifunctional cathode catalyst for long life Li-O ₂ batteries. Nano Research, 2015, 8, 576-583.	10.4	65
120	Pure Single-Crystalline Na _{1.1} V ₃ O _{7.9} Nanobelts as Superior Cathode Materials for Rechargeable Sodium-Ion Batteries. Advanced Science, 2015, 2, 1400018.	11.2	110
121	Flexible lithium-oxygen battery based on a recoverable cathode. Nature Communications, 2015, 6, 7892.	12.8	279
122	Electrospun materials for lithium and sodium rechargeable batteries: from structure evolution to electrochemical performance. Energy and Environmental Science, 2015, 8, 1660-1681.	30.8	362
123	Gelatin-derived sustainable carbon-based functional materials for energy conversion and storage with controllability of structure and component. Science Advances, 2015, 1, e1400035.	10.3	144
124	Multi-ring aromatic carbonyl compounds enabling high capacity and stable performance of sodium-organic batteries. Energy and Environmental Science, 2015, 8, 3160-3165.	30.8	155
125	C and N Hybrid Coordination Derived Co-C-N Complex as a Highly Efficient Electrocatalyst for Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2015, 137, 15070-15073.	13.7	377
126	Engraving Copper Foil to Give Large-Scale Binder-Free Porous CuO Arrays for a High-Performance Sodium-Ion Battery Anode. Advanced Materials, 2014, 26, 2273-2279.	21.0	427

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127	Electrodes: Engraving Copper Foil to Give Large-Scale Binder-Free Porous CuO Arrays for a High-Performance Sodium-Ion Battery Anode (Adv. Mater. 14/2014). Advanced Materials, 2014, 26, 2284-2284.	21.0	9
128	Tailored Aromatic Carbonyl Derivative Polyimides for High-Power and Long-Cycle Sodium-Organic Batteries. Advanced Energy Materials, 2014, 4, 1301651.	19.5	319
129	Direct electrodeposition of cobalt oxide nanosheets on carbon paper as free-standing cathode for Li-O ₂ battery. Journal of Materials Chemistry A, 2014, 2, 6081-6085.	10.3	83
130	Oxygen electrocatalysts in metal-air batteries: from aqueous to nonaqueous electrolytes. Chemical Society Reviews, 2014, 43, 7746-7786.	38.1	1,264
131	3D ordered macroporous LaFeO ₃ as efficient electrocatalyst for Li-O ₂ batteries with enhanced rate capability and cyclic performance. Energy and Environmental Science, 2014, 7, 2213.	30.8	339
132	ZIF-8 Derived Graphene-Based Nitrogen-Doped Porous Carbon Sheets as Highly Efficient and Durable Oxygen Reduction Electrocatalysts. Angewandte Chemie - International Edition, 2014, 53, 14235-14239.	13.8	849
133	In situ generated FeF ₃ in homogeneous iron matrix toward high-performance cathode material for sodium-ion batteries. Nano Energy, 2014, 10, 295-304.	16.0	101
134	Dendritic Ni-P-Coated Melamine Foam for a Lightweight, Low-Cost, and Amphipathic Three-Dimensional Current Collector for Binder-Free Electrodes. Advanced Materials, 2014, 26, 7264-7270.	21.0	103
135	Advances and challenges for flexible energy storage and conversion devices and systems. Energy and Environmental Science, 2014, 7, 2101.	30.8	767
136	Electrostatic Induced Stretch Growth of Homogeneous $\text{Ni}(\text{OH})_2$ on Graphene with Enhanced High-Rate Cycling for Supercapacitors. Scientific Reports, 2014, 4, 3669.	3.3	222
137	CO ₂ -expanded ethanol chemical synthesis of a Fe ₃ O ₄ @graphene composite and its good electrochemical properties as anode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3954.	10.3	58
138	Facile synthesis of a Co ₃ O ₄ -carbon nanotube composite and its superior performance as an anode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 1141-1147.	10.3	169
139	Trace Amounts of Water-Induced Distinct Growth Behaviors of NiO Nanostructures on Graphene in CO ₂ -Expanded Ethanol and Their Applications in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 7065-7071.	8.0	29
140	The developments and challenges of cerium half-cell in zinc-cerium redox flow battery for energy storage. Electrochimica Acta, 2013, 90, 695-704.	5.2	80
141	Efficient PdNi and PdNi@Pd-catalyzed hydrogen generation via formic acid decomposition at room temperature. Chemical Communications, 2013, 49, 10028.	4.1	129
142	Tailoring deposition and morphology of discharge products towards high-rate and long-life lithium-oxygen batteries. Nature Communications, 2013, 4, 2438.	12.8	519
143	Investigation of Pt nanoparticles with controlled size supported on carbon for dimethyl ether electrooxidation. Journal of Power Sources, 2013, 225, 231-239.	7.8	7
144	The development and challenges of rechargeable non-aqueous lithium-air batteries. International Journal of Smart and Nano Materials, 2013, 4, 27-46.	4.2	30

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145	Nitrogen-Doped Porous Carbon Nanosheets as Low-Cost, High-Performance Anode Material for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2013, 6, 56-60.	6.8	593
146	<i>In Situ</i> Fabrication of Porous Graphene Electrodes for High-Performance Energy Storage. <i>ACS Nano</i> , 2013, 7, 2422-2430.	14.6	394
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