Zhongwei Chen

List of Publications by Year
in descending order

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453 papers	51,064 citations	944 115 h-index	2071 204 g-index
488 all docs	488 docs citations	488 times ranked	34610 citing authors

#	Article	IF	Citations
1	Self-templated poly schiff base-Fe derived Fe-N co-doped porous carbon nanosheets for efficient electrocatalysis. Chemical Engineering Journal, 2022, 430, 132315.	6.6	7
2	Design of Quasiâ€MOF Nanospheres as a Dynamic Electrocatalyst toward Accelerated Sulfur Reduction Reaction for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials, 2022, 34, e2105541.	11.1	87
3	Ordered macroporous design of sacrificial Co/VN nano-heterojunction as bifunctional oxygen electrocatalyst for rechargeable zinc-air batteries. Chemical Engineering Journal, 2022, 433, 133509.	6.6	29
4	Eutectic Etching toward Inâ€Plane Porosity Manipulation of Clâ€Terminated MXene for Highâ€Performance Dualâ€Ion Battery Anode. Advanced Energy Materials, 2022, 12, 2102493.	10.2	37
5	Synergistic Binary Feâ€“Co Nanocluster Supported on Defective Tungsten Oxide as Efficient Oxygen Reduction Electrocatalyst in Zincâ€Air Battery. Advanced Science, 2022, 9, e2104237.	5.6	39
6	Evidence of Morphological Change in Sulfur Cathodes upon Irradiation by Synchrotron X-rays. ACS Energy Letters, 2022, 7, 577-582.	8.8	7
7	A MOFâ€Derivative Decorated Hierarchical Porous Host Enabling Ultrahigh Rates and Superior Longâ€Term Cycling of Dendriteâ€Free Zn Metal Anodes. Advanced Materials, 2022, 34, e2110047.	11.1	114
8	Design of Quasiâ€MOF Nanospheres as a Dynamic Electrocatalyst toward Accelerated Sulfur Reduction Reaction for Highâ€Performance Lithiumâ€“Sulfur Batteries (Adv. Mater. 2/2022). Advanced Materials, 2022, 34, .	11.1	0
9	Coordinatively Deficient Single-atom Fe-N-C Electrocatalyst with Optimized Electronic Structure for High-performance Lithium-sulfur Batteries. Energy Storage Materials, 2022, 46, 269-277.	9.5	95
10	Integrating Nanoreactor with Oâ€“Nbâ€“C Heterointerface Design and Defects Engineering Toward Highâ€Efficiency and Longevous Sodium Ion Battery. Advanced Energy Materials, 2022, 12, .	10.2	40
11	Porous organic polymers for Li-chemistry-based batteries: functionalities and characterization studies. Chemical Society Reviews, 2022, 51, 2917-2938.	18.7	65
12	Linker-Compensated Metalâ€“Organic Framework with Electron Delocalized Metal Sites for Bifunctional Oxygen Electrocatalysis. Journal of the American Chemical Society, 2022, 144, 4783-4791.	6.6	86
13	2D Materials for Allâ€Solidâ€State Lithium Batteries. Advanced Materials, 2022, 34, e2108079.	11.1	45
14	Emerging Trends in Sustainable CO₂â€Management Materials. Advanced Materials, 2022, 34, e2201547.	11.1	52
15	Bioinspired Tough Solidâ€State Electrolyte for Flexible Ultralongâ€Life Zincâ€“Air Battery. Advanced Materials, 2022, 34, e2110585.	11.1	58
16	A MOFâ€Derivative Decorated Hierarchical Porous Host Enabling Ultrahigh Rates and Superior Longâ€Term Cycling of Dendriteâ€Free Zn Metal Anodes (Adv. Mater. 14/2022). Advanced Materials, 2022, 34, .	11.1	1
17	Hierarchically Nanostructured Solidâ€State Electrolyte for Flexible Rechargeable Zincâ€“Air Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	43
18	Conductive oxide support design and synergistic engineering of bimetallic high-performance electrocatalyst for oxygen reduction reaction. Chemical Engineering Journal, 2022, 442, 136266.	6.6	9

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19	Hierarchically Nanostructured Solidâ€State Electrolyte for Flexible Rechargeable Zincâ€“Air Batteries. Angewandte Chemie, 2022, 134, .	1.6	13
20	Engineering checkerboard-like heterostructured sulfur electrocatalyst towards high-performance lithium sulfur batteries. Chemical Engineering Journal, 2022, 440, 135990.	6.6	20
21	Engineering Electrochemical Surface for Efficient Carbon Dioxide Upgrade. Advanced Energy Materials, 2022, 12, .	10.2	33
22	Thin Film Polyamide Nanocomposite Membrane Decorated by Polyphenol-Assisted Ti₃C₂T_x MXene Nanosheets for Reverse Osmosis. ACS Applied Materials & Interfaces, 2022, 14, 1838-1849.	4.0	30
23	Materials Engineering toward Durable Electrocatalysts for Proton Exchange Membrane Fuel Cells. Advanced Energy Materials, 2022, 12, .	10.2	61
24	Ionic interaction-mediated interlayer repulsion force promotes steadily shuttling of Zn2+ ions within VOPO4. Nano Energy, 2022, 98, 107268.	8.2	9
25	A Robust Bundled and Wrapped Structure Design of Ultrastable Silicon Anodes for Antiaging Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 5540-5550.	2.5	3
26	Nano-crumples induced Sn-Bi bimetallic interface pattern with moderate electron bank for highly efficient CO2 electroreduction. Nature Communications, 2022, 13, 2486.	5.8	99
27	Integrating Nanoreactor with Oâ€“Nbâ€“C Heterointerface Design and Defects Engineering Toward Highâ€Efficiency and Longevous Sodium Ion Battery (Adv. Energy Mater. 18/2022). Advanced Energy Materials, 2022, 12, .	10.2	2
28	Finelyâ€Dispersed Ni₂Co Nanoalloys on Flowerâ€Like Graphene Microassembly Empowering a Biâ€Service Matrix for Superior Lithiumâ€“Sulfur Electrochemistry. Advanced Functional Materials, 2022, 32, .	7.8	22
29	Three-dimensionally ordered mesoporous Co3O4 decorated with Mg as bifunctional oxygen electrocatalysts for high-performance zinc-air batteries. Nano Energy, 2022, 100, 107425.	8.2	39
30	Quasi-Covalently Coupled Niâ€“Cu Atomic Pair for Synergistic Electroreduction of CO₂. Journal of the American Chemical Society, 2022, 144, 9661-9671.	6.6	134
31	The plasticizer-free composite block copolymer electrolytes for ultralong lifespan all-solid-state lithium-metal batteries. Nano Energy, 2022, 100, 107499.	8.2	20
32	Efficient and Durable Anion Exchange Membrane Water Electrolysis for a Commercially Available Electrolyzer Stack using Alkaline Electrolyte. ACS Energy Letters, 2022, 7, 2576-2583.	8.8	44
33	Design Criteria for Siliconâ€Based Anode Binders in Half and Full Cells. Advanced Energy Materials, 2022, 12, .	10.2	52
34	Cu/Fe dual atoms catalysts derived from Cu-MOF for Zn-air batteries. Materials Today Energy, 2022, 28, 101086.	2.5	1
35	Heterogeneous Nanodomain Electrolytes for Ultraâ€Longâ€Life Allâ€Solidâ€State Lithiumâ€Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	23
36	Recent Progress on Flexible Zn-Air Batteries. Energy Storage Materials, 2021, 35, 538-549.	9.5	143

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37	Unsaturated coordination polymer frameworks as multifunctional sulfur reservoir for fast and durable lithium-sulfur batteries. Nano Energy, 2021, 79, 105393.	8.2	37
38	Selfâ€Templated Hierarchically Porous Carbon Nanorods Embedded with Atomic Feâ€N₄ Active Sites as Efficient Oxygen Reduction Electrocatalysts in Znâ€Air Batteries. Advanced Functional Materials, 2021, 31, 2008085.	7.8	117
39	Regulated coordination environment of Ni single atom catalyst toward high-efficiency oxygen electrocatalysis for rechargeable Zinc-air batteries. Energy Storage Materials, 2021, 35, 723-730.	9.5	89
40	Microporous framework membranes for precise molecule/ion separations. Chemical Society Reviews, 2021, 50, 986-1029.	18.7	191
41	Deciphering interpenetrated interface of transition metal oxides/phosphates from atomic level for reliable Li/S electrocatalytic behavior. Nano Energy, 2021, 81, 105602.	8.2	56
42	Analogous Mixed Matrix Membranes with Selfâ€Assembled Interface Pathways. Angewandte Chemie - International Edition, 2021, 60, 5864-5870.	7.2	29
43	Highly Stable Low-Cost Electrochemical Gas Sensor with an Alcohol-Tolerant N,S-Codoped Non-Precious Metal Catalyst Air Cathode. ACS Sensors, 2021, 6, 752-763.	4.0	7
44	Dissolving Vanadium into Titanium Nitride Lattice Framework for Rational Polysulfide Regulation in Liâ€“S Batteries. Advanced Energy Materials, 2021, 11, 2003020.	10.2	52
45	Morphology-controlled synthesis of metal-organic frameworks derived lattice plane-altered iron oxide for efficient trifunctional electrocatalysts. Nano Energy, 2021, 82, 105699.	8.2	42
46	Analogous Mixed Matrix Membranes with Selfâ€Assembled Interface Pathways. Angewandte Chemie, 2021, 133, 5928-5934.	1.6	3
47	Parasitic electrodeposition in Zn-MnO2 batteries and its suppression for prolonged cyclability. Energy Storage Materials, 2021, 36, 478-484.	9.5	41
48	Cationicâ€“anionic redox couple gradient to immunize against irreversible processes of Li-rich layered oxides. Journal of Materials Chemistry A, 2021, 9, 2325-2333.	5.2	20
49	Rational design of interlayer binding towards highly reversible anion intercalation cathode for dual ion batteries. Nano Energy, 2021, 81, 105643.	8.2	16
50	A Novel Design of High-Temperature Polymer Electrolyte Membrane Acetone Fuel Cell Sensor. Sensors and Actuators B: Chemical, 2021, 329, 129006.	4.0	10
51	High-performance anion exchange membrane alkaline seawater electrolysis. Journal of Materials Chemistry A, 2021, 9, 9586-9592.	5.2	67
52	In Situ Localized Polysulfide Injector for the Activation of Bulk Lithium Sulfide. Journal of the American Chemical Society, 2021, 143, 2185-2189.	6.6	31
53	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a Highâ€Efficiency Lithium Polysulfide Conversion Process. Angewandte Chemie, 2021, 133, 2401-2408.	1.6	13
54	Constructing multifunctional solid electrolyte interface via in-situ polymerization for dendrite-free and low N/P ratio lithium metal batteries. Nature Communications, 2021, 12, 186.	5.8	163

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55	Hierarchical Microâ€Nanoclusters of Bimetallic Layered Hydroxide Polyhedrons as Advanced Sulfur Reservoir for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Science, 2021, 8, 2003400.	5.6	63
56	Innentitelbild: Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a Highâ€Efficiency Lithium Polysulfide Conversion Process (Angew. Chem. 5/2021). Angewandte Chemie, 2021, 133, 2198-2198.	1.6	0
57	Reinforced polysulfide barrier by g-C3N4/CNT composite towards superior lithium-sulfur batteries. Journal of Energy Chemistry, 2021, 53, 234-240.	7.1	74
58	Solid Oxide Electrolysis of H2O and CO2 to Produce Hydrogen and Low-Carbon Fuels. Electrochemical Energy Reviews, 2021, 4, 508-517.	13.1	69
59	Modulating Metalâ€“Organic Frameworks as Advanced Oxygen Electrocatalysts. Advanced Energy Materials, 2021, 11, 2003291.	10.2	105
60	A Gasâ€Phase Migration Strategy to Synthesize Atomically Dispersed Mnâ€Nâ€C Catalysts for Znâ€“Air Batteries. Small Methods, 2021, 5, e2100024.	4.6	44
61	â€œTwo Ships in a Bottleâ€•Design for Znâ€“Agâ€“O Catalyst Enabling Selective and Long-Lasting CO₂ Electroreduction. Journal of the American Chemical Society, 2021, 143, 6855-6864.	6.6	139
62	Magneticâ€Fieldâ€Stimulated Efficient Photocatalytic N 2 Fixation over Defective BaTiO 3 Perovskites. Angewandte Chemie, 2021, 133, 12017-12025.	1.6	18
63	RÃ¼cktitelbild: Magneticâ€Fieldâ€Stimulated Efficient Photocatalytic N₂ Fixation over Defective BaTiO₃ Perovskites (Angew. Chem. 21/2021). Angewandte Chemie, 2021, 133, 12252-12252.	1.6	1
64	Magneticâ€Fieldâ€Stimulated Efficient Photocatalytic N₂ Fixation over Defective BaTiO₃ Perovskites. Angewandte Chemie - International Edition, 2021, 60, 11910-11918.	7.2	119
65	â€œSaunaâ€•Activation toward Intrinsic Lattice Deficiency in Carbon Nanotube Microspheres for Highâ€Energy and Longâ€Lasting Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100497.	10.2	53
66	Elucidating and tackling capacity fading of zinc-iodine redox flow batteries. Chemical Engineering Journal, 2021, 412, 128499.	6.6	21
67	Establishing the Preferential Adsorption of Anionâ€Dominated Solvation Structures in the Electrolytes for Highâ€Energyâ€Density Lithium Metal Batteries. Advanced Functional Materials, 2021, 31, 2011109.	7.8	37
68	Defect Engineering for Expediting Liâ€“S Chemistry: Strategies, Mechanisms, and Perspectives. Advanced Energy Materials, 2021, 11, 2100332.	10.2	143
69	Evolution of atomic-scale dispersion of FeNx in hierarchically porous 3D air electrode to boost the interfacial electrocatalysis of oxygen reduction in PEMFC. Nano Energy, 2021, 83, 105734.	8.2	41
70	Mesocrystallizing Nanograins for Enhanced Li + Storage. Advanced Energy Materials, 2021, 11, 2100503.	10.2	5
71	Aligned sulfur-deficient ZnS1âˆ’x nanotube arrays as efficient catalyzer for high-performance lithium/sulfur batteries. Nano Energy, 2021, 84, 105891.	8.2	81
72	Liâ€“S Batteries: â€œSaunaâ€•Activation toward Intrinsic Lattice Deficiency in Carbon Nanotube Microspheres for Highâ€Energy and Longâ€Lasting Lithiumâ€“Sulfur Batteries (Adv. Energy Mater. 26/2021). Advanced Energy Materials, 2021, 11, 2170099.	10.2	1

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73	Electrolyte Design for Lithium Metal Anodeâ€Based Batteries Toward Extreme Temperature Application. Advanced Science, 2021, 8, e2101051.	5.6	95
74	Selfâ€Assembled Facilitated Transport Membranes with Tunable Carrier Distribution for Ethylene/Ethane Separation. Advanced Functional Materials, 2021, 31, 2104349.	7.8	12
75	3d-Orbital Occupancy Regulated Ir-Co Atomic Pair Toward Superior Bifunctional Oxygen Electrocatalysis. ACS Catalysis, 2021, 11, 8837-8846.	5.5	110
76	Design Zwitterionic Amorphous Conjugated Microâ€/Mesoporous Polymer Assembled Nanotentacle as Highly Efficient Sulfur Electrocatalyst for Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2101926.	10.2	32
77	Amorphizing metal-organic framework towards multifunctional polysulfide barrier for high-performance lithium-sulfur batteries. Nano Energy, 2021, 86, 106094.	8.2	103
78	Precise synthesis of Feâ€“N2 with N vacancies coordination for boosting electrochemical artificial N2 fixation. Applied Catalysis B: Environmental, 2021, 293, 120216.	10.8	26
79	The role of artificial intelligence in the mass adoption of electric vehicles. Joule, 2021, 5, 2296-2322.	11.7	52
80	Densely accessible Fe-Nx active sites decorated mesoporous-carbon-spheres for oxygen reduction towards high performance aluminum-air flow batteries. Applied Catalysis B: Environmental, 2021, 293, 120176.	10.8	66
81	Engineering Oversaturated Feâ€N₅ Multifunctional Catalytic Sites for Durable Lithiumâ€Sulfur Batteries. Angewandte Chemie, 2021, 133, 26826-26833.	1.6	22
82	Engineering Oversaturated Feâ€N₅ Multifunctional Catalytic Sites for Durable Lithiumâ€Sulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, 26622-26629.	7.2	144
83	Defect engineering on three-dimensionally ordered macroporous phosphorus doped Co3O4â€“Î´ microspheres as an efficient bifunctional electrocatalyst for Zn-air batteries. Energy Storage Materials, 2021, 41, 427-435.	9.5	47
84	Self-assembly of colloidal MOFs derived yolk-shelled microcages as flexible air cathode for rechargeable Zn-air batteries. Nano Energy, 2021, 89, 106314.	8.2	34
85	From bulk to interface: electrochemical phenomena and mechanism studies in batteries via electrochemical quartz crystal microbalance. Chemical Society Reviews, 2021, 50, 10743-10763.	18.7	48
86	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a Highâ€Efficiency Lithium Polysulfide Conversion Process. Angewandte Chemie - International Edition, 2021, 60, 2371-2378.	7.2	176
87	Recent Progress on Highâ€Performance Cathode Materials for Zincâ€Ion Batteries. Small Structures, 2021, 2, 2000064.	6.9	85
88	Hierarchically Porous Ti₃C₂ MXene with Tunable Active Edges and Unsaturated Coordination Bonds for Superior Lithiumâ€“Sulfur Batteries. ACS Nano, 2021, 15, 19457-19467.	7.3	63
89	Frontispiz: Engineering Oversaturated Feâ€N₅ Multifunctional Catalytic Sites for Durable Lithiumâ€Sulfur Batteries. Angewandte Chemie, 2021, 133, .	1.6	0
90	Biomass-derived nitrogen-doped hierarchical porous carbon as efficient sulfur host for lithiumâ€“sulfur batteries. Journal of Energy Chemistry, 2020, 44, 61-67.	7.1	147

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91	Zwitterionic impetus on single lithium-ion conduction in solid polymer electrolyte for all-solid-state lithium-ion batteries. Chemical Engineering Journal, 2020, 384, 123237.	6.6	47
92	TiC supported amorphous MnOx as highly efficient bifunctional electrocatalyst for corrosion resistant oxygen electrode of Zn-air batteries. Nano Energy, 2020, 67, 104208.	8.2	93
93	Lowâ€Bandgap Seâ€Deficient Antimony Selenide as a Multifunctional Polysulfide Barrier toward Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials, 2020, 32, e1904876.	11.1	206
94	Relating Catalysis between Fuel Cell and Metal-Air Batteries. Matter, 2020, 2, 32-49.	5.0	112
95	NbOx nano-nail with a Pt head embedded in carbon as a highly active and durable oxygen reduction catalyst. Nano Energy, 2020, 69, 104455.	8.2	37
96	Hierarchically Porous Multimetalâ€Based Carbon Nanorod Hybrid as an Efficient Oxygen Catalyst for Rechargeable Zincâ€“Air Batteries. Advanced Functional Materials, 2020, 30, 1908167.	7.8	105
97	Water balancing. Nature Energy, 2020, 5, 12-13.	19.8	22
98	Evidence for interfacial geometric interactions at metalâ€“support interfaces and their influence on the electroactivity and stability of Pt nanoparticles. Journal of Materials Chemistry A, 2020, 8, 1368-1377.	5.2	25
99	A Triphasic Bifunctional Oxygen Electrocatalyst with Tunable and Synergetic Interfacial Structure for Rechargeable Znâ€Air Batteries. Advanced Energy Materials, 2020, 10, 1903003.	10.2	74
100	Engineering the Conductive Network of Metal Oxideâ€Based Sulfur Cathode toward Efficient and Longevous Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2002076.	10.2	126
101	Breaking Free from Cobalt Reliance in Lithium-Ion Batteries. IScience, 2020, 23, 101505.	1.9	80
102	â€œSoft on rigidâ€•nanohybrid as the self-supporting multifunctional cathode electrocatalyst for high-performance lithium-polysulfide batteries. Nano Energy, 2020, 78, 105293.	8.2	36
103	Fast Charging Li-Ion Batteries for a New Era of Electric Vehicles. Cell Reports Physical Science, 2020, 1, 100212.	2.8	54
104	Developing high safety Li-metal anodes for future high-energy Li-metal batteries: strategies and perspectives. Chemical Society Reviews, 2020, 49, 5407-5445.	18.7	264
105	A Near-Isotropic Proton-Conducting Porous Graphene Oxide Membrane. ACS Nano, 2020, 14, 14947-14959.	7.3	13
106	d-Orbital steered active sites through ligand editing on heterometal imidazole frameworks for rechargeable zinc-air battery. Nature Communications, 2020, 11, 5858.	5.8	109
107	Deep-Breathing Honeycomb-like Co-Nx-C Nanopolyhedron Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. IScience, 2020, 23, 101404.	1.9	38
108	Direct Observation of Defectâ€Aided Structural Evolution in a Nickelâ€Rich Layered Cathode. Angewandte Chemie, 2020, 132, 22276-22283.	1.6	15

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109	A Combined Ordered Macroâ€Mesoporous Architecture Design and Surface Engineering Strategy for Highâ€Performance Sulfur Immobilizer in Lithiumâ€“Sulfur Batteries. Small, 2020, 16, e2001089.	5.2	43
110	RÃ¼cktitelbild: Ternary Snâ€Tiâ€O Electrocatalyst Boosts the Stability and Energy Efficiency of CO₂ Reduction (Angew. Chem. 31/2020). Angewandte Chemie, 2020, 132, 13224-13224.	1.6	0
111	Decoupled low-cost ammonium-based electrolyte design for highly stable zincâ€“iodine redox flow batteries. Energy Storage Materials, 2020, 32, 465-476.	9.5	48
112	Space-confined catalyst design toward ultrafine Pt nanoparticles with enhanced oxygen reduction activity and durability. Journal of Power Sources, 2020, 473, 228607.	4.0	23
113	Direct Observation of Defectâ€Aided Structural Evolution in a Nickelâ€Rich Layered Cathode. Angewandte Chemie - International Edition, 2020, 59, 22092-22099.	7.2	75
114	Ultrafine, high-loading and oxygen-deficient cerium oxide embedded on mesoporous carbon nanosheets for superior lithiumâ€“oxygen batteries. Nano Energy, 2020, 71, 104570.	8.2	28
115	Tensile-strained ruthenium phosphide by anion substitution for highly active and durable hydrogen evolution. Nano Energy, 2020, 77, 105212.	8.2	39
116	Regulating the Li⁺â€Solvation Structure of Ester Electrolyte for Highâ€Energyâ€Density Lithium Metal Batteries. Small, 2020, 16, e2004688.	5.2	34
117	A review of composite solid-state electrolytes for lithium batteries: fundamentals, key materials and advanced structures. Chemical Society Reviews, 2020, 49, 8790-8839.	18.7	461
118	Manipulating Auâ^'CeO₂ Interfacial Structure Toward Ultrahigh Mass Activity and Selectivity for CO₂ Reduction. ChemSusChem, 2020, 13, 6621-6628.	3.6	15
119	Engineering Solvation Complexâ€“Membrane Interaction to Suppress Cation Crossover in 3 V Cuâ€Al Battery. Small, 2020, 16, 2003438.	5.2	11
120	Preferentially Engineering FeN₄ Edge Sites onto Graphitic Nanosheets for Highly Active and Durable Oxygen Electrocatalysis in Rechargeable Znâ€“Air Batteries. Advanced Materials, 2020, 32, e2004900.	11.1	235
121	Three-Dimensional Modeling of All-Solid-State Lithium-Ion Batteries Using Synchrotron Transmission X-ray Microscopy Tomography. Journal of the Electrochemical Society, 2020, 167, 100558.	1.3	30
122	Insights into Multiphase Reactions during Self-Discharge of Li-S Batteries. Chemistry of Materials, 2020, 32, 4518-4526.	3.2	38
123	Ternary Snâ€Tiâ€O Electrocatalyst Boosts the Stability and Energy Efficiency of CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 12860-12867.	7.2	68
124	Ternary Snâ€Tiâ€O Electrocatalyst Boosts the Stability and Energy Efficiency of CO 2 Reduction. Angewandte Chemie, 2020, 132, 12960-12967.	1.6	8
125	Reviving zinc-air batteries with high-density metal particles on carbon. Science Bulletin, 2020, 65, 1511-1513.	4.3	5
126	Twoâ€Dimensional NiO@Câ€N Nanosheets Composite as a Superior Lowâ€Temperature Anode Material for Advanced Lithiumâ€/Sodiumâ€Ion Batteries. ChemElectroChem, 2020, 7, 3616-3622.	1.7	22

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127	High Voltage Stability and Characterization of P2â€Na 0.66 Mn 1â€y Mg y O 2 Cathode for Sodiumâ€Ion Batteries. ChemElectroChem, 2020, 7, 3284-3290.	1.7	8
128	Graphene Quantum Dotsâ€Based Advanced Electrode Materials: Design, Synthesis and Their Applications in Electrochemical Energy Storage and Electrocatalysis. Advanced Energy Materials, 2020, 10, 2001275.	10.2	109
129	Revealing the Rapid Electrocatalytic Behavior of Ultrafine Amorphous Defective Nb₂O_{5â€“x} Nanocluster toward Superior Liâ€“S Performance. ACS Nano, 2020, 14, 4849-4860.	7.3	201
130	Three-dimensionally ordered macro-microporous metal organic frameworks with strong sulfur immobilization and catalyzation for high-performance lithium-sulfur batteries. Nano Energy, 2020, 72, 104685.	8.2	160
131	Na2CoPO4F as a pseudocapacitive anode for high-performance and ultrastable hybrid sodium-ion capacitors. Electrochimica Acta, 2020, 342, 136024.	2.6	9
132	Supramolecular preorganization effect to access single cobalt sites for enhanced photocatalytic hydrogen evolution and nitrogen fixation. Chemical Engineering Journal, 2020, 394, 124822.	6.6	27
133	Constructing Safe and Durable Highâ€Voltage P2 Layered Cathodes for Sodium Ion Batteries Enabled by Molecular Layer Deposition of Alucone. Advanced Functional Materials, 2020, 30, 1910251.	7.8	47
134	Superior performance of anion exchange membrane water electrolyzer: Ensemble of producing oxygen vacancies and controlling mass transfer resistance. Applied Catalysis B: Environmental, 2020, 278, 119276.	10.8	80
135	Tantalum-Based Electrocatalyst for Polysulfide Catalysis and Retention for High-Performance Lithium-Sulfur Batteries. Matter, 2020, 3, 920-934.	5.0	104
136	Consolidating Lithiothermicâ€Ready Transition Metals for Li₂Sâ€Based Cathodes. Advanced Materials, 2020, 32, e2002403.	11.1	59
137	Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. Nature Reviews Materials, 2020, 5, 276-294.	23.3	284
138	Fast production of zincâ€“hexamethylenetetramine complex microflowers as an advanced sulfur reservoir for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 5062-5069.	5.2	14
139	Cationic and anionic redox in lithium-ion based batteries. Chemical Society Reviews, 2020, 49, 1688-1705.	18.7	152
140	Atomic scale manipulation of sublayer with functional TiO2 nanofilm toward high-performance reverse osmosis membrane. Desalination, 2020, 480, 114342.	4.0	29
141	Niâ€Rich/Coâ€Poor Layered Cathode for Automotive Liâ€Ion Batteries: Promises and Challenges. Advanced Energy Materials, 2020, 10, 1903864.	10.2	242
142	Template-guided synthesis of Co nanoparticles embedded in hollow nitrogen doped carbon tubes as a highly efficient catalyst for rechargeable Zn-air batteries. Nano Energy, 2020, 71, 104592.	8.2	157
143	Recycling of mixed cathode lithiumâ€ion batteries for electric vehicles: Current status and future outlook. , 2020, 2, 6-43.		300
144	Lithiumâ€Sulfur Batteries: Lowâ€Bandgap Seâ€Deficient Antimony Selenide as a Multifunctional Polysulfide Barrier toward Highâ€Performance Lithiumâ€“Sulfur Batteries (Adv. Mater. 4/2020). Advanced Materials, 2020, 32, 2070030.	11.1	6

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145	Advanced Electrode Materials Comprising of Structureâ€Engineered Quantum Dots for Highâ€Performance Asymmetric Microâ€Supercapacitors. Advanced Energy Materials, 2020, 10, 1903724.	10.2	36
146	Polysulfide Regulation by the Zwitterionic Barrier toward Durable Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2020, 142, 3583-3592.	6.6	174
147	Boosting the Heat Dissipation Performance of Graphene/Polyimide Flexible Carbon Film via Enhanced Throughâ€Plane Conductivity of 3D Hybridized Structure. Small, 2020, 16, e1903315.	5.2	40
148	A fundamental understanding of the Fe/Ti doping induced structure formation process to realize controlled synthesis of layer-tunnel Na0.6MnO2 cathode. Nano Energy, 2020, 70, 104539.	8.2	26
149	Hierarchical Defective Fe_{3â€}_xC@C Hollow Microsphere Enables Fast and Longâ€Lasting Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2020, 30, 2001165.	7.8	144
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