

# Cheng Zhong

## List of Publications by Year in descending order

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158  
papers

14,461  
citations

23500

58  
h-index

20307

116  
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168  
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168  
docs citations

168  
times ranked

13760  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of electrolyte materials and compositions for electrochemical supercapacitors. <i>Chemical Society Reviews</i> , 2015, 44, 7484-7539.	18.7	2,723
2	Atomically Dispersed Binary Co-Ni Sites in Nitrogen-Doped Hollow Carbon Nanocubes for Reversible Oxygen Reduction and Evolution. <i>Advanced Materials</i> , 2019, 31, e1905622.	11.1	537
3	Generation of Nanoparticle, Atomic-Cluster, and Single-Atom Cobalt Catalysts from Zeolitic Imidazole Frameworks by Spatial Isolation and Their Use in Zinc-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5359-5364.	7.2	500
4	Decoupling electrolytes towards stable and high-energy rechargeable aqueous zinc-manganese dioxide batteries. <i>Nature Energy</i> , 2020, 5, 440-449.	19.8	430
5	Identifying the Activation of Bimetallic Sites in NiCo <sub>2</sub> S <sub>4</sub> @g-C <sub>3</sub> N <sub>4</sub> -CNT Hybrid Electrocatalysts for Synergistic Oxygen Reduction and Evolution. <i>Advanced Materials</i> , 2019, 31, e1808281.	11.1	315
6	Ultrathin Co <sub>3</sub> O <sub>4</sub> Layers with Large Contact Area on Carbon Fibers as High-Performance Electrode for Flexible Zinc-Air Battery Integrated with Flexible Display. <i>Advanced Energy Materials</i> , 2017, 7, 1700779.	10.2	309
7	Atomically Thin Mesoporous Co <sub>3</sub> O <sub>4</sub> Layers Strongly Coupled with Ni-GO Nanosheets as High-Performance Bifunctional Catalysts for 1D Knittable Zinc-Air Batteries. <i>Advanced Materials</i> , 2018, 30, 1703657.	11.1	302
8	Recent Advances in Flexible Zinc-Based Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1802605.	10.2	296
9	Ultrafine Pt Nanoparticle-Decorated Pyrite-Type CoS <sub>2</sub> Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1800935.	10.2	286
10	Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. <i>Nature Reviews Materials</i> , 2020, 5, 276-294.	23.3	284
11	Challenges in Zinc Electrodes for Alkaline Zinc-Air Batteries: Obstacles to Commercialization. <i>ACS Energy Letters</i> , 2019, 4, 2259-2270.	8.8	276
12	Identifying Dense NiSe <sub>2</sub> /CoSe <sub>2</sub> Heterointerfaces Coupled with Surface High-Valence Bimetallic Sites for Synergistically Enhanced Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2020, 32, e2000607.	11.1	251
13	Sub-3 nm Co <sub>3</sub> O <sub>4</sub> Nanofilms with Enhanced Supercapacitor Properties. <i>ACS Nano</i> , 2015, 9, 1730-1739.	7.3	248
14	Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1702222.	10.2	243
15	Sulfur-Grafted Hollow Carbon Spheres for Potassium-Ion Battery Anodes. <i>Advanced Materials</i> , 2019, 31, e1900429.	11.1	235
16	Sequential Electrodeposition of Bifunctional Catalytically Active Structures in MoO <sub>3</sub> /Ni-NiO Composite Electrocatalysts for Selective Hydrogen and Oxygen Evolution. <i>Advanced Materials</i> , 2020, 32, e2003414.	11.1	206
17	Utilizing solar energy to improve the oxygen evolution reaction kinetics in zinc-air battery. <i>Nature Communications</i> , 2019, 10, 4767.	5.8	199
18	Spontaneous Synthesis of Silver-Nanoparticle-Decorated Transition-Metal Hydroxides for Enhanced Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7245-7250.	7.2	196

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19	Unravelling the reaction chemistry and degradation mechanism in aqueous Zn/MnO <sub>2</sub> rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5733-5739.	5.2	182
20	A Rechargeable Zn-Air Battery with High Energy Efficiency and Long Life Enabled by a Highly Water-Retentive Gel Electrolyte with Reaction Modifier. <i>Advanced Materials</i> , 2020, 32, e1908127.	11.1	172
21	Defect Engineering of Chalcogen-Tailored Oxygen Electrocatalysts for Rechargeable Quasi-Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2017, 29, 1702526.	11.1	171
22	Lattice-Strain Engineering of Homogeneous NiS <sub>0.5</sub> Se <sub>0.5</sub> Core-Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2020, 32, e2000231.	11.1	158
23	Confronting the Challenges in Lithium Anodes for Lithium Metal Batteries. <i>Advanced Science</i> , 2021, 8, e2101111.	5.6	157
24	Metal-Air Batteries: From Static to Flow System. <i>Advanced Energy Materials</i> , 2018, 8, 1801396.	10.2	156
25	Protective diffusion coatings on magnesium alloys: A review of recent developments. <i>Journal of Alloys and Compounds</i> , 2012, 520, 11-21.	2.8	152
26	Cationic and anionic redox in lithium-ion based batteries. <i>Chemical Society Reviews</i> , 2020, 49, 1688-1705.	18.7	152
27	Dislocation-Strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e2006034.	11.1	148
28	Battery Technologies for Grid-Level Large-Scale Electrical Energy Storage. <i>Transactions of Tianjin University</i> , 2020, 26, 92-103.	3.3	146
29	Recent advances and challenges in divalent and multivalent metal electrodes for metal-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18183-18208.	5.2	139
30	Highly Active and Durable Single-Atom Tungsten-Doped NiS <sub>0.5</sub> Se <sub>0.5</sub> Nanosheet@NiS <sub>0.5</sub> Se <sub>0.5</sub> Nanorod Heterostructures for Water Splitting. <i>Advanced Materials</i> , 2022, 34, e2107053.	11.1	136
31	Heterogeneous lamellar-edged Fe-Ni(OH) <sub>2</sub> /Ni <sub>3</sub> S <sub>2</sub> nanoarray for efficient and stable seawater oxidation. <i>Nano Research</i> , 2021, 14, 1149-1155.	5.8	130
32	Clarifying the Controversial Catalytic Performance of Co(OH) <sub>2</sub> and Co <sub>3</sub> O <sub>4</sub> for Oxygen Reduction/Evolution Reactions toward Efficient Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22694-22703.	4.0	121
33	Designed synthesis of NiCo-LDH and derived sulfide on heteroatom-doped edge-enriched 3D rivet graphene films for high-performance asymmetric supercapacitor and efficient OER. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8109-8119.	5.2	121
34	Controllable Synthesis of Ni <sub>x</sub> Se (0.5 ≤ x ≤ 1) Nanocrystals for Efficient Rechargeable Zinc-Air Batteries and Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 13675-13684.	4.0	116
35	Bimetallic Metal-Organic-Framework/Reduced Graphene Oxide Composites as Bifunctional Electrocatalysts for Rechargeable Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15662-15669.	4.0	107
36	Generation of Nanoparticle, Atomic Cluster, and Single-Atom Cobalt Catalysts from Zeolitic Imidazole Frameworks by Spatial Isolation and Their Use in Zinc-Air Batteries. <i>Angewandte Chemie</i> , 2019, 131, 5413-5418.	1.6	106

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37	Encapsulating Cobalt Nanoparticles in Interconnected N-Doped Hollow Carbon Nanofibers with Enriched Co <sub>1/2</sub> Ni <sub>1/2</sub> C Moiety for Enhanced Oxygen Electrocatalysis in Zn-Air Batteries. <i>Advanced Science</i> , 2021, 8, e2101438.	5.6	104
38	In Situ Fabrication of Heterostructure on Nickel Foam with Tuned Composition for Enhancing Water-Splitting Performance. <i>Small</i> , 2018, 14, e1803666.	5.2	100
39	Advances in the development of power supplies for the Internet of Everything. <i>Informa-Materially</i> , 2019, 1, 130-139.	8.5	97
40	Review of Emerging Potassium-Sulfur Batteries. <i>Advanced Materials</i> , 2020, 32, e1908007.	11.1	91
41	High-Temperature Shock Enabled Nanomanufacturing for Energy-Related Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2001331.	10.2	86
42	Engineering the Surface Metal Active Sites of Nickel Cobalt Oxide Nanoplates toward Enhanced Oxygen Electrocatalysis for Zn-Air Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4915-4921.	4.0	84
43	Pt-Decorated highly porous flower-like Ni particles with high mass activity for ammonia electro-oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11060-11068.	5.2	83
44	Acceptor-Doping Accelerated Charge Separation in Cu <sub>2</sub> O Photocathode for Photoelectrochemical Water Splitting: Theoretical and Experimental Studies. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18463-18467.	7.2	82
45	Carbon-based cathode materials for rechargeable zinc-air batteries: From current collectors to bifunctional integrated air electrodes. , 2020, 2, 370-386.		82
46	Confined Fe <sub>2</sub> VO <sub>4</sub> , Nitrogen-Doped Carbon Nanowires with Internal Void Space for High-Rate and Ultrastable Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1902674.	10.2	81
47	Inversely Tuning the CO <sub>2</sub> Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7602-7606.	7.2	81
48	Atomically Dispersed Selenium Sites on Nitrogen-Doped Carbon for Efficient Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	80
49	Electrochemical Oxidation of Chlorine-Doped Co(OH) <sub>2</sub> Nanosheet Arrays on Carbon Cloth as a Bifunctional Oxygen Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 796-805.	4.0	79
50	Identifying Heteroatomic and Defective Sites in Carbon with Dual-Ion Adsorption Capability for High Energy and Power Zinc Ion Capacitor. <i>Nano-Micro Letters</i> , 2021, 13, 59.	14.4	78
51	Nanosheets assembled into nickel sulfide nanospheres with enriched Ni <sup>3+</sup> active sites for efficient water-splitting and zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23787-23793.	5.2	76
52	Mesoporous Decoration of Freestanding Palladium Nanotube Arrays Boosts the Electrocatalysis Capabilities toward Formic Acid and Formate Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1900955.	10.2	72
53	Surfactant-free electrochemical synthesis of hierarchical platinum particle electrocatalysts for oxidation of ammonia. <i>Journal of Power Sources</i> , 2013, 223, 165-174.	4.0	70
54	Atomic Layer Co <sub>3</sub> O <sub>4</sub> Nanosheets: The Key to Knittable Zn-Air Batteries. <i>Small</i> , 2018, 14, e1702987.	5.2	68

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55	Extreme Environmental Thermal Shock Induced Dislocation-Rich Pt Nanoparticles Boosting Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2022, 34, e2106973.	11.1	68
56	Air-Assisted Transient Synthesis of Metastable Nickel Oxide Boosting Alkaline Fuel Oxidation Reaction. <i>Advanced Energy Materials</i> , 2020, 10, 2001397.	10.2	66
57	Potassium-Ion Batteries: Sulfur-Grafted Hollow Carbon Spheres for Potassium-Ion Battery Anodes (Adv.) <i>Tj ETQq</i> 1 1 0.784314 rg	11.1	63
58	Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2021, 33, e2006461.	11.1	63
59	Long-battery-life flexible zinc-air battery with near-neutral polymer electrolyte and nanoporous integrated air electrode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25449-25457.	5.2	61
60	Hierarchical iridium-based multimetallic alloy with double-core-shell architecture for efficient overall water splitting. <i>Science China Materials</i> , 2020, 63, 249-257.	3.5	59
61	Thermal Shock-Activated Spontaneous Growing of Nanosheets for Overall Water Splitting. <i>Nano-Micro Letters</i> , 2020, 12, 162.	14.4	59
62	Shape-controlled synthesis of Pt-Ir nanocubes with preferential (100) orientation and their unusual enhanced electrocatalytic activities. <i>Science China Materials</i> , 2014, 57, 13-25.	3.5	58
63	Engineering the Metal/Oxide Interface of Pd Nanowire@CuO Electro catalysts for Efficient Alcohol Oxidation Reaction. <i>Small</i> , 2020, 16, e1904964.	5.2	58
64	PdPt bimetallic nanoparticles enabled by shape control with halide ions and their enhanced catalytic activities. <i>Nanoscale</i> , 2016, 8, 3962-3972.	2.8	55
65	Stable heteroepitaxial interface of Li-rich layered oxide cathodes with enhanced lithium storage. <i>Energy Storage Materials</i> , 2019, 21, 69-76.	9.5	53
66	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. <i>Batteries and Supercaps</i> , 2020, 3, 1262-1274.	2.4	53
67	The Trade-Offs in the Design of Reversible Zinc Anodes for Secondary Alkaline Batteries. <i>Electrochemical Energy Reviews</i> , 2022, 5, 187-210.	13.1	51
68	Multiple Twin Boundary-Regulated Metastable Pd for Ethanol Oxidation Reaction. <i>Advanced Energy Materials</i> , 2022, 12, 2103505.	10.2	51
69	Phase Transfer of Mo <sub>2</sub> C Induced by Boron Doping to Boost Nitrogen Reduction Reaction Catalytic Activity. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	51
70	ITa <sub>2</sub> ReS <sub>2</sub> Confined in 2D-Honeycombed Carbon Nanosheets as New Anode Materials for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901146.	10.2	50
71	Millisecond Conversion of Photovoltaic Silicon Waste to Binder-Free High Silicon Content Nanowires Electrodes. <i>Advanced Energy Materials</i> , 2021, 11, 2102103.	10.2	48
72	Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5092-5101.	7.2	45

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73	Modulating the Surface Ligand Orientation for Stabilized Anionic Redox in Li-Rich Oxide Cathodes. <i>Advanced Energy Materials</i> , 2021, 11, 2003479.	10.2	45
74	Pt embedded Ni <sub>3</sub> Se <sub>2</sub> @NiOOH core-shell dendrite-like nanoarrays on nickel as bifunctional electrocatalysts for overall water splitting. <i>Science China Materials</i> , 2019, 62, 1096-1104.	3.5	43
75	Engineering cobalt sulfide/oxide heterostructure with atomically mixed interfaces for synergistic electrocatalytic water splitting. <i>Nano Research</i> , 2022, 15, 1246-1253.	5.8	43
76	Defective Bimetallic Selenides for Selective CO <sub>2</sub> Electroreduction to CO. <i>Advanced Materials</i> , 2022, 34, e2106354.	11.1	43
77	Waste to wealth: Defect-rich Ni-incorporated spent LiFePO <sub>4</sub> for efficient oxygen evolution reaction. <i>Science China Materials</i> , 2021, 64, 2710-2718.	3.5	41
78	Synthesis of Cubic-Shaped Pt Particles with (100) Preferential Orientation by a Quick, One-Step and Clean Electrochemical Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18856-18864.	4.0	39
79	Developing Indium-based Ternary Spinel Selenides for Efficient Solid Flexible Zn-Air Batteries and Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8115-8123.	4.0	38
80	One-step synthesis of the PdPt bimetallic nanodendrites with controllable composition for methanol oxidation reaction. <i>Science China Materials</i> , 2018, 61, 697-706.	3.5	37
81	Bifunctional hydroxyl group over polymeric carbon nitride to achieve photocatalytic H <sub>2</sub> O <sub>2</sub> production in ethanol aqueous solution with an apparent quantum yield of 52.8% at 420 nm. <i>Chemical Communications</i> , 2019, 55, 13279-13282.	2.2	37
82	Tungsten disulfide-based nanomaterials for energy conversion and storage. <i>Tungsten</i> , 2020, 2, 109-133.	2.0	37
83	Lower temperature fabrication of continuous intermetallic coatings on AZ91D magnesium alloy in molten salts. <i>Journal of Alloys and Compounds</i> , 2010, 504, 377-381.	2.8	36
84	“æž, èjæ, jé†â±žâ€-â•ç%o ©èf1/2æ°è1/2-â€-ç”µâ, -â€-â%o, ç”ç ©¶èjâ±•. <i>Science China Materials</i> , 2021, 64, 1-26.		
85	Improved catalytic performance of Pt/TiO <sub>2</sub> nanotubes electrode for ammonia oxidation under UV-light illumination. <i>Electrochimica Acta</i> , 2014, 150, 146-150.	2.6	32
86	Improving the Electrocatalytic Activity of Pt Monolayer Catalysts for Electrooxidation of Methanol, Ethanol and Ammonia by Tailoring the Surface Morphology of the Supporting Core. <i>ChemElectroChem</i> , 2016, 3, 537-551.	1.7	32
87	Investigation of the Environmental Stability of Poly(vinyl alcohol)-KOH Polymer Electrolytes for Flexible Zinc-Air Batteries. <i>Frontiers in Chemistry</i> , 2019, 7, 678.	1.8	32
88	Bimetallic Multi-Level Layered Co@NiOOH/Ni <sub>3</sub> S <sub>2</sub> @NF Nanosheet for Hydrogen Evolution Reaction in Alkaline Medium. <i>Small</i> , 2022, 18, e2106904.	5.2	31
89	Recent Progress in Advanced Characterization Methods for Silicon-Based Lithium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900158.	4.6	30
90	Kirigami-Inspired Flexible and Stretchable Zinc-Air Battery Based on Metal-Coated Sponge Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 54833-54841.	4.0	30

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91	Co <sub>3</sub> O <sub>4</sub> nanoparticles supported on N-doped electrospinning carbon nanofibers as an efficient and bifunctional oxygen electrocatalyst for rechargeable Zn–air batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3554-3561.	3.0	29
92	Size- and Density-Controllable Fabrication of the Platinum Nanoparticle/ITO Electrode by Pulse Potential Electrodeposition for Ammonia Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 27765-27772.	4.0	28
93	Engineering Pyrite-Type Bimetallic Ni-Doped CoS <sub>2</sub> Nanoneedle Arrays over a Wide Compositional Range for Enhanced Oxygen and Hydrogen Electrocatalysis with Flexible Property. <i>Catalysts</i> , 2017, 7, 366.	1.6	28
94	Nanomanufacturing of RGO–CNT Hybrid Film for Flexible Aqueous Al–ion Batteries. <i>Small</i> , 2020, 16, e2002856.	5.2	28
95	Varied hydrogen evolution reaction properties of nickel phosphide nanoparticles with different compositions in acidic and alkaline conditions. <i>Journal of Materials Science</i> , 2017, 52, 804-814.	1.7	27
96	Cobalt sulfides constructed heterogeneous interfaces decorated on N,S-codoped carbon nanosheets as a highly efficient bifunctional oxygen electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13926-13935.	5.2	27
97	Designing Nanoporous Coral-Like Pt Nanowires Architecture for Methanol and Ammonia Oxidation Reactions. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	27
98	Interdiffusion kinetics of the intermetallic coatings on AZ91D magnesium alloy formed in molten salts at lower temperatures. <i>Journal of Alloys and Compounds</i> , 2014, 610, 173-179.	2.8	26
99	Regulating the Catalytically Active Sites in Low-Cost and Earth-Abundant 3d Transition-Metal-Based Electrode Materials for High-Performance Zinc–Air Batteries. <i>Energy &amp; Fuels</i> , 2021, 35, 6483-6503.	2.5	26
100	Metal chalcogenides: An emerging material for electrocatalysis. <i>APL Materials</i> , 2021, 9, .	2.2	26
101	Hierarchical yolk-shell structured Li-rich cathode boosting cycling and voltage stabled LIBs. <i>Nano Research</i> , 2022, 15, 3178-3186.	5.8	26
102	Controlled Synthesis of Ni-Doped MoS <sub>2</sub> Hybrid Electrode for Synergistically Enhanced Water–Splitting Process. <i>Chemistry - A European Journal</i> , 2020, 26, 4097-4103.	1.7	23
103	Highly Active and CO-Tolerant Trimetallic NiPtPd Hollow Nanocrystals as Electrocatalysts for Methanol Electro-oxidation Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 4763-4773.	2.5	23
104	NiS/Ni <sub>3</sub> S <sub>2</sub> @NiWO <sub>4</sub> nanoarrays towards all-solid-state hybrid supercapacitor with record-high energy density. <i>Science China Materials</i> , 2021, 64, 852-860.	3.5	23
105	Dynamic stretching–electroplating metal-coated textile for a flexible and stretchable zinc–air battery. , 2022, 4, 867-877.		23
106	Enhanced Electrocatalytic Activities toward the Ethanol Oxidation of Nanoporous Gold Prepared via Solid-Phase Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 336-343.	2.5	22
107	Toward Flexible and Wearable Zn–Air Batteries from Cotton Textile Waste. <i>ACS Omega</i> , 2019, 4, 19341-19349.	1.6	21
108	Long-Life and Highly Utilized Zinc Anode for Aqueous Batteries Enabled by Electrolyte Additives with Synergistic Effects. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 18431-18438.	4.0	21

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109	Metallic-State MoS <sub>2</sub> Nanosheets with Atomic Modification for Sodium Ion Batteries with a High Rate Capability and Long Lifespan. ACS Applied Materials & Interfaces, 2021, 13, 19894-19903.	4.0	20
110	Enhanced antibacterial properties of biocompatible titanium <i>via</i> electrochemically deposited Ag/TiO <sub>2</sub> nanotubes and chitosan-gelatin-Ag-ZnO complex coating. RSC Advances, 2019, 9, 4521-4529.	1.7	19
111	Advanced Characterization Techniques for Identifying the Key Active Sites of Gas-involved Electrocatalysts. Advanced Functional Materials, 2020, 30, 2001704.	7.8	19
112	Behavior of gold-enhanced electrocatalytic performance of NiPtAu hollow nanocrystals for alkaline methanol oxidation. Science China Materials, 2021, 64, 611-620.	3.5	18
113	Size-controllable synthesis and high-performance formic acid oxidation of polycrystalline Pd nanoparticles. Rare Metals, 2019, 38, 115-121.	3.6	17
114	Fabrication of platinum submonolayer electrodes and their high electrocatalytic activities for ammonia oxidation. Electrochimica Acta, 2015, 177, 30-35.	2.6	15
115	Combining the Advantages of Hollow and One-Dimensional Structures: Balanced Activity and Stability toward Methanol Oxidation Based on the Interface of PtCo Nanochains. ACS Applied Energy Materials, 2019, 2, 1588-1593.	2.5	15
116	3D Foam Anode and Hydrogel Electrolyte for High-Performance and Stable Flexible Zinc-Air Battery. ChemistrySelect, 2020, 5, 8305-8310.	0.7	15
117	Single atoms (Pt, Ir and Rh) anchored on activated NiCo LDH for alkaline hydrogen evolution reaction. Chemical Communications, 2022, 58, 8254-8257.	2.2	15
118	Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. Angewandte Chemie, 2020, 132, 5130-5139.	1.6	14
119	Atomically Dispersed Selenium Sites on Nitrogen-Doped Carbon for Efficient Electrocatalytic Oxygen Reduction. Angewandte Chemie, 2022, 134, .	1.6	14
120	Potassium Polyacrylate-Based Gel Polymer Electrolyte for Practical Zn-Ni Batteries. ACS Applied Materials & Interfaces, 2022, 14, 22847-22857.	4.0	14
121	Facile High Throughput Wet-Chemical Synthesis Approach Using a Microfluidic-Based Composition and Temperature Controlling Platform. Frontiers in Chemistry, 2020, 8, 579828.	1.8	13
122	Development of Metal and Metal-Based Composites Anode Materials for Potassium-Ion Batteries. Transactions of Tianjin University, 2021, 27, 248-268.	3.3	13
123	Building a Library for Catalysts Research Using High-Throughput Approaches. Advanced Functional Materials, 2022, 32, 2107862.	7.8	13
124	Spontaneous Synthesis of Silver-Nanoparticle-Decorated Transition-Metal Hydroxides for Enhanced Oxygen Evolution Reaction. Angewandte Chemie, 2020, 132, 7312-7317.	1.6	12
125	Controlled Synthesis and Structure Engineering of Transition Metal-based Nanomaterials for Oxygen and Hydrogen Electrocatalysis in Zinc-Air Battery and Water-Splitting Devices. ChemSusChem, 2021, 14, 1659-1673.	3.6	12
126	Toward Theoretical Capacity and Superhigh Power Density for Potassium-Selenium Batteries via Facilitating Reversible Potassiation Kinetics. ACS Applied Materials & Interfaces, 2022, 14, 6828-6840.	4.0	12



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127	Ni-Doped Mo <sub>2</sub> C Anchored on Graphitized Porous Carbon for Boosting Electrocatalytic N <sub>2</sub> Reduction. ACS Applied Materials & Interfaces, 2022, 14, 17273-17281.	4.0	12
128	Zinc-Air Batteries: Atomic Layer Co <sub>3</sub> O <sub>4</sub> Nanosheets: The Key to Knittable Zn-Air Batteries (Small 43/2018). Small, 2018, 14, 1870200.	5.2	11
129	Electrocatalysis: Ultrafine Pt Nanoparticle-Decorated Pyrite-Type CoS <sub>2</sub> Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting (Adv. Energy Mater.) Tj ETQq1 1 0.784314 rgBT /Overl	10.2	10
130	Metal Air Batteries: Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis (Adv. Energy Mater. 10/2018). Advanced Energy Materials, 2018, 8, 1870043.	10.2	10
131	Pt Monolayers on Electrodeposited Nanoparticles of Different Compositions for Ammonia Electro-Oxidation. Catalysts, 2019, 9, 4.	1.6	10
132	One-Step Fabrication and Localized Electrochemical Characterization of Continuous Al-Alloyed Intermetallic Surface Layer on Magnesium Alloy. Coatings, 2018, 8, 148.	1.2	9
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