

Cheng Zhong

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147
papers

8,704
citations

46
h-index

91
g-index

168
ext. papers

11,555
ext. citations

13.6
avg, IF

6.69
L-index

#	Paper	IF	Citations
147	A review of electrolyte materials and compositions for electrochemical supercapacitors. <i>Chemical Society Reviews</i> , 2015 , 44, 7484-539	58.5	2002
146	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	24	340
145	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	16.4	323
144	Atomically Thin Mesoporous Co O Layers Strongly Coupled with N-rGO Nanosheets as High-Performance Bifunctional Catalysts for 1D Knittable Zinc-Air Batteries. <i>Advanced Materials</i> , 2018 , 30, 1703657	24	233
143	Sub-3 nm Co ₃ O ₄ nanofilms with enhanced supercapacitor properties. <i>ACS Nano</i> , 2015 , 9, 1730-9	16.7	222
142	Identifying the Activation of Bimetallic Sites in NiCo S @g-C N -CNT Hybrid Electrocatalysts for Synergistic Oxygen Reduction and Evolution. <i>Advanced Materials</i> , 2019 , 31, e1808281	24	221
141	Ultrathin Co ₃ O ₄ 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	21.8	218
140	Ultrafine Pt Nanoparticle-Decorated Pyrite-Type CoS ₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1800935	21.8	217
139	Decoupling electrolytes towards stable and high-energy rechargeable aqueous zinc-manganese dioxide batteries. <i>Nature Energy</i> , 2020 , 5, 440-449	62.3	203
138	Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1702222	21.8	182
137	Sulfur-Grafted Hollow Carbon Spheres for Potassium-Ion Battery Anodes. <i>Advanced Materials</i> , 2019 , 31, e1900429	24	172
136	Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. <i>Nature Reviews Materials</i> , 2020 , 5, 276-294	73.3	151
135	Challenges in Zinc Electrodes for Alkaline Zinc-Air Batteries: Obstacles to Commercialization. <i>ACS Energy Letters</i> , 2019 , 4, 2259-2270	20.1	147
134	Identifying Dense NiSe /CoSe Heterointerfaces Coupled with Surface High-Valence Bimetallic Sites for Synergistically Enhanced Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2020 , 32, e2000607	24	143
133	Unravelling the reaction chemistry and degradation mechanism in aqueous Zn/MnO ₂ rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5733-5739	13	132
132	Defect Engineering of Chalcogen-Tailored Oxygen Electrocatalysts for Rechargeable Quasi-Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702526	24	131
131	Protective diffusion coatings on magnesium alloys: A review of recent developments. <i>Journal of Alloys and Compounds</i> , 2012 , 520, 11-21	5.7	112

130	Metal-Air Batteries: From Static to Flow System. <i>Advanced Energy Materials</i> , 2018 , 8, 1801396	21.8	104
129	Spontaneous Synthesis of Silver-Nanoparticle-Decorated Transition-Metal Hydroxides for Enhanced Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7245-7250	16.4	103
128	Utilizing solar energy to improve the oxygen evolution reaction kinetics in zinc-air battery. <i>Nature Communications</i> , 2019 , 10, 4767	17.4	101
127	Clarifying the Controversial Catalytic Performance of Co(OH) and CoO for Oxygen Reduction/Evolution Reactions toward Efficient Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22694-22703	9.5	97
126	Sequential Electrodeposition of Bifunctional Catalytically Active Structures in MoO ₃ /Ni-NiO Composite Electrocatalysts for Selective Hydrogen and Oxygen Evolution. <i>Advanced Materials</i> , 2020 , 32, e2003414	24	95
125	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	13	87
124	Cationic and anionic redox in lithium-ion based batteries. <i>Chemical Society Reviews</i> , 2020 , 49, 1688-1705	58.5	84
123	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	3.6	82
122	Controllable Synthesis of Ni ₃ Se ₂ (0.5 nm) Nanocrystals for Efficient Rechargeable Zinc-Air Batteries and Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13675-13684	9.5	80
121	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	13	79
120	Lattice-Strain Engineering of Homogeneous Ni ₃ Se ₂ Core-Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2020 , 32, e2000231	24	79
119	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	24	79
118	Bimetallic Metal-Organic-Framework/Reduced Graphene Oxide Composites as Bifunctional Electrocatalysts for Rechargeable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15662-15669	9.5	71
117	Advances in the development of power supplies for the Internet of Everything. <i>Information Materials</i> , 2019 , 1, 130-139	23.1	67
116	Battery Technologies for Grid-Level Large-Scale Electrical Energy Storage. <i>Transactions of Tianjin University</i> , 2020 , 26, 92-103	2.9	65
115	In Situ Fabrication of Heterostructure on Nickel Foam with Tuned Composition for Enhancing Water-Splitting Performance. <i>Small</i> , 2018 , 14, e1803666	11	62
114	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	13	59
113	Confined Fe ₂ VO ₄ /Nitrogen-Doped Carbon Nanowires with Internal Void Space for High-Rate and Ultrastable Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2019 , 9, 1902674	21.8	57

112	Dislocation-Strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2020 , 32, e2006034	24	56
111	Engineering the Surface Metal Active Sites of Nickel Cobalt Oxide Nanoplates toward Enhanced Oxygen Electrocatalysis for Zn-Air Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4915-4921	9.5	56
110	Electrochemical Oxidation of Chlorine-Doped Co(OH) Nanosheet Arrays on Carbon Cloth as a Bifunctional Oxygen Electrode. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 796-805	9.5	56
109	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	21.8	52
108	Review of Emerging Potassium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e1908007	24	51
107	Atomic Layer Co O Nanosheets: The Key to Knittable Zn-Air Batteries. <i>Small</i> , 2018 , 14, e1702987	11	51
106	Surfactant-free electrochemical synthesis of hierarchical platinum particle electrocatalysts for oxidation of ammonia. <i>Journal of Power Sources</i> , 2013 , 223, 165-174	8.9	49
105	PdPt bimetallic nanoparticles enabled by shape control with halide ions and their enhanced catalytic activities. <i>Nanoscale</i> , 2016 , 8, 3962-72	7.7	48
104	Heterogeneous lamellar-edged Fe-Ni(OH) ₂ /Ni ₃ S ₂ nanoarray for efficient and stable seawater oxidation. <i>Nano Research</i> , 2021 , 14, 1149-1155	10	48
103	Nanosheets assembled into nickel sulfide nanospheres with enriched Ni ³⁺ active sites for efficient water-splitting and zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23787-23793	13	46
102	High-Temperature Shock Enabled Nanomanufacturing for Energy-Related Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2001331	21.8	41
101	Potassium-Ion Batteries: Sulfur-Grafted Hollow Carbon Spheres for Potassium-Ion Battery Anodes (Adv. Mater. 30/2019). <i>Advanced Materials</i> , 2019 , 31, 1970217	24	39
100	Hierarchical iridium-based multimetallic alloy with double-core-shell architecture for efficient overall water splitting. <i>Science China Materials</i> , 2020 , 63, 249-257	7.1	39
99	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	7.1	38
98	Carbon-based cathode materials for rechargeable zinc-air batteries: From current collectors to bifunctional integrated air electrodes 2020 , 2, 370-386		35
97	Stable heteroepitaxial interface of Li-rich layered oxide cathodes with enhanced lithium storage. <i>Energy Storage Materials</i> , 2019 , 21, 69-76	19.4	33
96	1T'-ReS ₂ Confined in 2D-Honeycombed Carbon Nanosheets as New Anode Materials for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1901146	21.8	32
95	Acceptor-Doping Accelerated Charge Separation in Cu O Photocathode for Photoelectrochemical Water Splitting: Theoretical and Experimental Studies. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18463-18467	16.4	31

94	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	5.7	31
93	Thermal Shock-Activated Spontaneous Growing of Nanosheets for Overall Water Splitting. <i>Nano-Micro Letters</i> , 2020 , 12, 162	19.5	31
92	Engineering the Metal/Oxide Interface of Pd Nanowire@CuO Electrocatalysts for Efficient Alcohol Oxidation Reaction. <i>Small</i> , 2020 , 16, e1904964	11	29
91	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	13	29
90	Inversely Tuning the CO Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7602-7606	16.4	29
89	Pt embedded Ni ₃ Se ₂ @NiOOH core-shell dendrite-like nanoarrays on nickel as bifunctional electrocatalysts for overall water splitting. <i>Science China Materials</i> , 2019 , 62, 1096-1104	7.1	28
88	One-step synthesis of the PdPt bimetallic nanodendrites with controllable composition for methanol oxidation reaction. <i>Science China Materials</i> , 2018 , 61, 697-706	7.1	28
87	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	4.3	28
86	Synthesis of Cubic-Shaped Pt Particles with (100) Preferential Orientation by a Quick, One-Step and Clean Electrochemical Method. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18856-18864	9.5	27
85	Improved catalytic performance of Pt/TiO ₂ nanotubes electrode for ammonia oxidation under UV-light illumination. <i>Electrochimica Acta</i> , 2014 , 150, 146-150	6.7	27
84	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	16.4	26
83	Developing Indium-based Ternary Spinel Selenides for Efficient Solid Flexible Zn-Air Batteries and Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8115-8123	9.5	23
82	Engineering Pyrite-Type Bimetallic Ni-Doped CoS ₂ Nanoneedle Arrays over a Wide Compositional Range for Enhanced Oxygen and Hydrogen Electrocatalysis with Flexible Property. <i>Catalysts</i> , 2017 , 7, 366	4	23
81	Air-Assisted Transient Synthesis of Metastable Nickel Oxide Boosting Alkaline Fuel Oxidation Reaction. <i>Advanced Energy Materials</i> , 2020 , 10, 2001397	21.8	23
80	Confronting the Challenges in Lithium Anodes for Lithium Metal Batteries. <i>Advanced Science</i> , 2021 , 8, e2101111	13.6	22
79	Bifunctional hydroxyl group over polymeric carbon nitride to achieve photocatalytic HO ₂ production in ethanol aqueous solution with an apparent quantum yield of 52.8% at 420 nm. <i>Chemical Communications</i> , 2019 , 55, 13279-13282	5.8	22
78	Tungsten disulfide-based nanomaterials for energy conversion and storage. <i>Tungsten</i> , 2020 , 2, 109-133	4.6	21
77	Encapsulating Cobalt Nanoparticles in Interconnected N-Doped Hollow Carbon Nanofibers with Enriched Co ₂ N ₂ C Moiety for Enhanced Oxygen Electrocatalysis in Zn-Air Batteries. <i>Advanced Science</i> , 2021 , 8, e2101438	13.6	21

76	Recent Progress in Advanced Characterization Methods for Silicon-Based Lithium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900158	12.8	20
75	Size- and Density-Controllable Fabrication of the Platinum Nanoparticle/ITO Electrode by Pulse Potential Electrodeposition for Ammonia Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27765-27772	9.5	20
74	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	19.5	20
73	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	4.3	19
72	Co ₃ O ₄ 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	6.8	19
71	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	6.1	18
70	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	5.7	18
69	Highly Active and Durable Single-Atom Tungsten-Doped NiS Se Nanosheet@NiS Se Nanorod Heterostructures for Water Splitting.. <i>Advanced Materials</i> , 2022 , e2107053	24	18
68	Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006461	24	18
67	Nanomanufacturing of RGO-CNT Hybrid Film for Flexible Aqueous Al-Ion Batteries. <i>Small</i> , 2020 , 16, e2002856	21.8	17
66	Recent progresses of micro-nanostructured transition metal compound-based electrocatalysts for energy conversion technologies. <i>Science China Materials</i> , 2021 , 64, 1-26	7.1	17
65	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	5	15
64	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. <i>Batteries and Supercaps</i> , 2020 , 3, 1262-1274	5.6	14
63	Kirigami-Inspired Flexible and Stretchable Zinc-Air Battery Based on Metal-Coated Sponge Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54833-54841	9.5	14
62	Modulating the Surface Ligand Orientation for Stabilized Anionic Redox in Li-Rich Oxide Cathodes. <i>Advanced Energy Materials</i> , 2021 , 11, 2003479	21.8	14
61	Atomically Dispersed Selenium Sites on Nitrogen-Doped Carbon for Efficient Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	13
60	Enhanced antibacterial properties of biocompatible titanium electrochemically deposited Ag/TiO ₂ nanotubes and chitosan-gelatin-Ag-ZnO complex coating.. <i>RSC Advances</i> , 2019 , 9, 4521-4529	3.7	12
59	Fabrication of platinum submonolayer electrodes and their high electrocatalytic activities for ammonia oxidation. <i>Electrochimica Acta</i> , 2015 , 177, 30-35	6.7	12

58	Size-controllable synthesis and high-performance formic acid oxidation of polycrystalline Pd nanoparticles. <i>Rare Metals</i> , 2019 , 38, 115-121	5.5	12
57	NiS/Ni ₃ S ₂ @NiWO ₄ nanoarrays towards all-solid-state hybrid supercapacitor with record-high energy density. <i>Science China Materials</i> , 2021 , 64, 852-860	7.1	12
56	Combining the Advantages of Hollow and One-Dimensional Structures: Balanced Activity and Stability toward Methanol Oxidation Based on the Interface of PtCo Nanochains. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1588-1593	6.1	11
55	Advanced Characterization Techniques for Identifying the Key Active Sites of Gas-Involved Electrocatalysts. <i>Advanced Functional Materials</i> , 2020 , 30, 2001704	15.6	11
54	Controlled Synthesis of Ni-Doped MoS Hybrid Electrode for Synergistically Enhanced Water-Splitting Process. <i>Chemistry - A European Journal</i> , 2019 , 26, 4097	4.8	11
53	Multiple Twin Boundary-Regulated Metastable Pd for Ethanol Oxidation Reaction. <i>Advanced Energy Materials</i> , 2103505	21.8	11
52	Extreme Environmental Thermal Shock Induced Dislocation-Rich Pt Nanoparticles Boosting Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2021 , 34, e2106973	24	11
51	Waste to wealth: Defect-rich Ni-incorporated spent LiFePO ₄ for efficient oxygen evolution reaction. <i>Science China Materials</i> , 2021 , 64, 2710-2718	7.1	11
50	Millisecond Conversion of Photovoltaic Silicon Waste to Binder-Free High Silicon Content Nanowires Electrodes. <i>Advanced Energy Materials</i> , 2021 , 11, 2102103	21.8	11
49	Spontaneous Synthesis of Silver-Nanoparticle-Decorated Transition-Metal Hydroxides for Enhanced Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 7312-7317	3.6	10
48	Toward Flexible and Wearable Zn-Air Batteries from Cotton Textile Waste. <i>ACS Omega</i> , 2019 , 4, 19341-19349	9.49	10
47	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	6.1	10
46	Metallic-State MoS Nanosheets with Atomic Modification for Sodium Ion Batteries with a High Rate Capability and Long Lifespan. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19894-19903	9.5	10
45	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	13	10
44	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 & Fuels</i> , 2021 , 35, 6483-6503	4.1	9
43	The Trade-Offs in the Design of Reversible Zinc Anodes for Secondary Alkaline Batteries. <i>Electrochemical Energy Reviews</i> , 1	29.3	9
42	Development of Metal and Metal-Based Composites Anode Materials for Potassium-Ion Batteries. <i>Transactions of Tianjin University</i> , 2021 , 27, 248-268	2.9	9
41	3D Foam Anode and Hydrogel Electrolyte for High-Performance and Stable Flexible Zinc-Air Battery. <i>ChemistrySelect</i> , 2020 , 5, 8305-8310	1.8	8

40	Electrocatalysis: Ultrafine Pt Nanoparticle-Decorated Pyrite-Type CoS ₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting (Adv. Energy Mater. 24/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870110	21.8	8
39	Studies on the Electrochemical Stability of Preferentially (100)-Oriented Pt Prepared through Three Different Methods. <i>ChemElectroChem</i> , 2017 , 4, 66-74	4.3	7
38	Phase Transfer of Mo ₂ C Induced by Boron Doping to Boost Nitrogen Reduction Reaction Catalytic Activity. <i>Advanced Functional Materials</i> , 2021 , 11, 2110783	15.6	7
37	Behavior of gold-enhanced electrocatalytic performance of NiPtAu hollow nanocrystals for alkaline methanol oxidation. <i>Science China Materials</i> , 2021 , 64, 611-620	7.1	7
36	Engineering cobalt sulfide/oxide heterostructure with atomically mixed interfaces for synergistic electrocatalytic water splitting. <i>Nano Research</i> , 2021 , 14, 1-10	10	7
35	Metal Air Batteries: Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis (Adv. Energy Mater. 10/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870043	21.8	6
34	One-Step Fabrication and Localized Electrochemical Characterization of Continuous Al-Alloyed Intermetallic Surface Layer on Magnesium Alloy. <i>Coatings</i> , 2018 , 8, 148	2.9	6
33	Defective Bimetallic Selenides for Selective CO Electroreduction to C ₂ H ₄ . <i>Advanced Materials</i> , 2021 , e2106354	21.4	6
32	Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. <i>Angewandte Chemie</i> , 2020 , 132, 5130-5139	3.6	6
31	Facile High Throughput Wet-Chemical Synthesis Approach Using a Microfluidic-Based Composition and Temperature Controlling Platform. <i>Frontiers in Chemistry</i> , 2020 , 8, 579828	5	5
30	Metal chalcogenides: An emerging material for electrocatalysis. <i>APL Materials</i> , 2021 , 9, 050902	5.7	5
29	Pt Monolayers on Electrodeposited Nanoparticles of Different Compositions for Ammonia Electro-Oxidation. <i>Catalysts</i> , 2019 , 9, 4	4	5
28	Bimetallic Multi-Level Layered Co-NiOOH/Ni S @NF Nanosheet for Hydrogen Evolution Reaction in Alkaline Medium.. <i>Small</i> , 2022 , e2106904	11	5
27	Hierarchical yolk-shell structured Li-rich cathode boosting cycling and voltage stabled LIBs. <i>Nano Research</i> , 2021 , 14, 1-10	10	4
26	Electrolytes for Electrochemical Supercapacitors. <i>Electrochemical Energy Storage and Conversion</i> , 2016 , 31-254		4
25	Sodium-Ion Batteries: 1T'-ReS ₂ Confined in 2D-Honeycombed Carbon Nanosheets as New Anode Materials for High-Performance Sodium-Ion Batteries (Adv. Energy Mater. 30/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970117	21.8	3
24	Fundamentals of Electrochemical Supercapacitors. <i>Electrochemical Energy Storage and Conversion</i> , 2016 , 1-30		3
23	Controlled Synthesis and Structure Engineering of Transition Metal-based Nanomaterials for Oxygen and Hydrogen Electrocatalysis in Zinc-Air Battery and Water-Splitting Devices. <i>ChemSusChem</i> , 2021 , 14, 1659-1673	8.3	3

22	Zinc-Air Batteries: Atomic Layer Co ₃ O ₄ Nanosheets: The Key to Knittable Zn/Air Batteries (Small 43/2018). <i>Small</i> , 2018 , 14, 1870200	11	3
21	Designing Nanoporous Coral-Like Pt Nanowires Architecture for Methanol and Ammonia Oxidation Reactions. <i>Advanced Functional Materials</i> , 2022 , 32, 2110702	15.6	3
20	Zinc/Air Batteries: A Rechargeable Zn/Air Battery with High Energy Efficiency and Long Life Enabled by a Highly Water-Retentive Gel Electrolyte with Reaction Modifier (Adv. Mater. 22/2020). <i>Advanced Materials</i> , 2020 , 32, 2070172	24	2
19	A Solution-based Method for Synthesizing Pyrite-type Ferrous Metal Sulfide Microspheres with Efficient OER Activity. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2231-2238	4.5	2
18	Zinc/Air Batteries: Atomically Thin Mesoporous Co ₃ O ₄ Layers Strongly Coupled with N-rGO Nanosheets as High-Performance Bifunctional Catalysts for 1D Knittable Zinc/Air Batteries (Adv. Mater. 4/2018). <i>Advanced Materials</i> , 2018 , 30, 1870027	24	2
17	In-situ multi-deposition process for cobalt-sulfide synthesis with efficient bifunctional catalytic activity. <i>Ferroelectrics</i> , 2018 , 523, 119-125	0.6	2
16	Compatibility of Electrolytes with Inactive Components of Electrochemical Supercapacitors. <i>Electrochemical Energy Storage and Conversion</i> , 2016 , 255-274		2
15	Frontispiz: Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. <i>Angewandte Chemie</i> , 2020 , 132,	3.6	1
14	Electrocatalysis: Mesoporous Decoration of Freestanding Palladium Nanotube Arrays Boosts the Electrocatalysis Capabilities toward Formic Acid and Formate Oxidation (Adv. Energy Mater. 25/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970100	21.8	1
13	Methods for producing an easily assembled zinc-air battery. <i>MethodsX</i> , 2020 , 7, 100973	1.9	1
12	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. <i>Batteries and Supercaps</i> , 2020 , 3, 1261-1261	5.6	1
11	Finite-Element Analysis on Percolation Performance of Foam Zinc. <i>ACS Omega</i> , 2018 , 3, 11018-11025	3.9	1
10	Palladium Particles Modified by Mixed-Frequency Square-Wave Potential Treatment to Enhance Electrocatalytic Performance for Formic Acid Oxidation. <i>Catalysts</i> , 2021 , 11, 522	4	0
9	Life-Cycle Economic Evaluation of Batteries for Electochemical Energy Storage Systems. <i>Journal of Electrical Engineering and Technology</i> , 2021 , 16, 2497	1.4	0
8	Building a Library for Catalysts Research Using High-Throughput Approaches. <i>Advanced Functional Materials</i> , 2107862	15.6	0
7	Ir Single Atoms Doped Cuboctahedral Pd for Boosted Methanol Oxidation Reaction. <i>Particle and Particle Systems Characterization</i> , 2200013	3.1	0
6	Nanoporous nickel with rich adsorbed oxygen for efficient alkaline hydrogen evolution electrocatalysis. <i>Science China Materials</i> , 1	7.1	0
5	Solution process synthesis of morphology-controllable CoSe ₂ nanocrystals with efficient bifunctional catalytic activity. <i>Ferroelectrics</i> , 2018 , 523, 126-133	0.6	

4	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, 506-506	4.3
3	Extreme Environmental Thermal Shock Induced Dislocation-Rich Pt Nanoparticles Boosting Hydrogen Evolution Reaction (Adv. Mater. 2/2022). <i>Advanced Materials</i> , 2022 , 34, 2270018	24
2	Millisecond Conversion of Photovoltaic Silicon Waste to Binder-Free High Silicon Content Nanowires Electrodes (Adv. Energy Mater. 40/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170157	21.8
1	Zinc-Air Batteries: Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zinc-Air Batteries (Adv. Mater. 31/2021). <i>Advanced Materials</i> , 2021 , 33, 2170243	24