

Wenbin Hu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3871359/wenbin-hu-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

159
papers

9,198
citations

45
h-index

94
g-index

181
ext. papers

12,158
ext. citations

12
avg, IF

6.78
L-index

#	Paper	IF	Citations
159	A review of electrolyte materials and compositions for electrochemical supercapacitors. <i>Chemical Society Reviews</i> , 2015 , 44, 7484-539	58.5	2002
158	Review of Hybrid Ion Capacitors: From Aqueous to Lithium to Sodium. <i>Chemical Reviews</i> , 2018 , 118, 6457-6498	64.98	504
157	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
156	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
155	NiCo ₂ S ₄ nanocrystals anchored on nitrogen-doped carbon nanotubes as a highly efficient bifunctional electrocatalyst for rechargeable zinc-air batteries. <i>Nano Energy</i> , 2017 , 31, 541-550	17.1	290
154	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
153	Sub-3 nm Co ₃ O ₄ nanofilms with enhanced supercapacitor properties. <i>ACS Nano</i> , 2015 , 9, 1730-9	16.7	222
152	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
151	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
150	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
149	Decoupling electrolytes towards stable and high-energy rechargeable aqueous zinc-manganese dioxide batteries. <i>Nature Energy</i> , 2020 , 5, 440-449	62.3	203
148	Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1702222	21.8	182
147	Sulfur-Grafted Hollow Carbon Spheres for Potassium-Ion Battery Anodes. <i>Advanced Materials</i> , 2019 , 31, e1900429	24	172
146	Phase and composition controlled synthesis of cobalt sulfide hollow nanospheres for electrocatalytic water splitting. <i>Nanoscale</i> , 2018 , 10, 4816-4824	7.7	165
145	Challenges in Zinc Electrodes for Alkaline Zinc-Air Batteries: Obstacles to Commercialization. <i>ACS Energy Letters</i> , 2019 , 4, 2259-2270	20.1	147
144	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
143	Metal-Air Batteries: From Static to Flow System. <i>Advanced Energy Materials</i> , 2018 , 8, 1801396	21.8	104

142	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
141	Utilizing solar energy to improve the oxygen evolution reaction kinetics in zinc-air battery. <i>Nature Communications</i> , 2019 , 10, 4767	17.4	101
140	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
139	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
138	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
137	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
136	Interfacial engineering of BiS/TiCT MXene based on work function for rapid photo-excited bacteria-killing. <i>Nature Communications</i> , 2021 , 12, 1224	17.4	82
135	Controllable Synthesis of Ni ₂ Se (0.5 × 0.5) Nanocrystals for Efficient Rechargeable Zinc-Air Batteries and Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13675-13684	9.5	80
134	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
133	Lattice-Strain Engineering of Homogeneous NiS ₂ Se Core-Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2020 , 32, e2000231	24	79
132	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
131	Ultrathin CoO nanofilm as an efficient bifunctional catalyst for oxygen evolution and reduction reaction in rechargeable zinc-air batteries. <i>Nanoscale</i> , 2017 , 9, 8623-8630	7.7	77
130	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
129	Advances in the development of power supplies for the Internet of Everything. <i>Information Materials</i> , 2019 , 1, 130-139	23.1	67
128	Battery Technologies for Grid-Level Large-Scale Electrical Energy Storage. <i>Transactions of Tianjin University</i> , 2020 , 26, 92-103	2.9	65
127	In Situ Fabrication of Heterostructure on Nickel Foam with Tuned Composition for Enhancing Water-Splitting Performance. <i>Small</i> , 2018 , 14, e1803666	11	62
126	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
125	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

124	Dislocation-Strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2020 , 32, e2006034	24	56
123	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
122	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
121	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
120	Review of Emerging Potassium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e1908007	24	51
119	Atomic Layer Co O Nanosheets: The Key to Knittable Zn-Air Batteries. <i>Small</i> , 2018 , 14, e1702987	11	51
118	A Simple One-Pot Strategy for Synthesizing Ultrafine SnS Nanoparticle/Graphene Composites as Anodes for Lithium/Sodium-Ion Batteries. <i>ChemSusChem</i> , 2018 , 11, 1549-1557	8.3	49
117	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
116	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
115	Fe ³⁺ -coated fibre Bragg grating sensor for steel corrosion monitoring. <i>Corrosion Science</i> , 2011 , 53, 1933-1938	19.8	41
114	High-Temperature Shock Enabled Nanomanufacturing for Energy-Related Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2001331	21.8	41
113	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
112	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
111	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
110	Carbon-based cathode materials for rechargeable zinc-air batteries: From current collectors to bifunctional integrated air electrodes 2020 , 2, 370-386		35
109	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
108	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
107	Thermal Shock-Activated Spontaneous Growing of Nanosheets for Overall Water Splitting. <i>Nano-Micro Letters</i> , 2020 , 12, 162	19.5	31

106	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
105	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
104	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
103	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
102	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
101	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
100	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
99	Self-Assembly of Graphene-Encapsulated Cu Composites for Nonenzymatic Glucose Sensing. <i>ACS Omega</i> , 2018 , 3, 3420-3428	3.9	23
98	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
97	Air-Assisted Transient Synthesis of Metastable Nickel Oxide Boosting Alkaline Fuel Oxidation Reaction. <i>Advanced Energy Materials</i> , 2020 , 10, 2001397	21.8	23
96	Fiber Optic Hydrogen Sensor Based on Fabry-Pérot Interferometer Coated With Sol-Gel Pt/WO ₃ Coating. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2530-2534	4	22
95	Confronting the Challenges in Lithium Anodes for Lithium Metal Batteries. <i>Advanced Science</i> , 2021 , 8, e2101111	13.6	22
94	Fabrication and properties of a superhydrophobic film on an electroless plated magnesium alloy. <i>RSC Advances</i> , 2017 , 7, 28909-28917	3.7	21
93	Mesoporous Graphitic Carbon-Encapsulated Fe ₃ O ₄ Nanocomposite as High-Rate Anode Material for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 14786-14793	4.8	21
92	Facile synthesis of nickel cobalt selenide hollow nanospheres as efficient bifunctional electrocatalyst for rechargeable Zn-air battery. <i>Science China Materials</i> , 2020 , 63, 347-355	7.1	21
91	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
90	Recent Progress in Advanced Characterization Methods for Silicon-Based Lithium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900158	12.8	20
89	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

88	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
87	Perchlorate ion doped polypyrrole coated ZnS sphere composites as a sodium-ion battery anode with superior rate capability enhanced by pseudocapacitance. <i>RSC Advances</i> , 2017 , 7, 43636-43641	3.7	19
86	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
85	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
84	Large-scale and template-free synthesis of hierarchically porous MnCo ₂ O _{4.5} as anode material for lithium-ion batteries with enhanced electrochemical performance. <i>Journal of Materials Science</i> , 2017 , 52, 5268-5282	4.3	18
83	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
82	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
81	Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006461	24	18
80	Corrosion behavior of X65 steel in seawater containing sulfate reducing bacteria under aerobic conditions. <i>Bioelectrochemistry</i> , 2018 , 122, 40-50	5.6	17
79	Engineering Interface and Oxygen Vacancies of NiCoSe to Boost Oxygen Catalysis for Flexible Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27964-27972	9.5	17
78	Nanomanufacturing of RGO-CNT Hybrid Film for Flexible Aqueous Al-Ion Batteries. <i>Small</i> , 2020 , 16, e2002856	12.8	17
77	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
76	Optical Sensor for Steel Corrosion Monitoring Based on Etched Fiber Bragg Grating Sputtered With Iron Film. <i>IEEE Sensors Journal</i> , 2015 , 15, 3551-3556	4	16
75	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
74	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. <i>Batteries and Supercaps</i> , 2020 , 3, 1262-1274	5.6	14
73	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
72	Porous Zinc Anode Design for Zn-air Chemistry. <i>Frontiers in Chemistry</i> , 2019 , 7, 656	5	13
71	A Design of Taper-Like Etched Multicore Fiber Refractive Index-Insensitive a Temperature Highly Sensitive Mach-Zehnder Interferometer. <i>IEEE Sensors Journal</i> , 2020 , 20, 7074-7081	4	13

70	Enhanced antibacterial properties of biocompatible titanium electrochemically deposited Ag/TiO nanotubes and chitosan-gelatin-Ag-ZnO complex coating.. <i>RSC Advances</i> , 2019 , 9, 4521-4529	3.7	12
69	Sapphire Fiber High-Temperature Tip Sensor With Multilayer Coating. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 741-743	2.2	12
68	NiS/Ni3S2@NiWO4 nanoarrays towards all-solid-state hybrid supercapacitor with record-high energy density. <i>Science China Materials</i> , 2021 , 64, 852-860	7.1	12
67	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
66	Advanced Characterization Techniques for Identifying the Key Active Sites of Gas-Involved Electrocatalysts. <i>Advanced Functional Materials</i> , 2020 , 30, 2001704	15.6	11
65	Sandwich nanostructured LiMnPO4/C as enhanced cathode materials for lithium-ion batteries. <i>Journal of Materials Science</i> , 2017 , 52, 3597-3612	4.3	11
64	Multiple Twin Boundary-Regulated Metastable Pd for Ethanol Oxidation Reaction. <i>Advanced Energy Materials</i> , 2103505	21.8	11
63	Extreme Environmental Thermal Shock Induced Dislocation-Rich Pt Nanoparticles Boosting Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2021 , 34, e2106973	24	11
62	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
61	Toward Flexible and Wearable Zn-Air Batteries from Cotton Textile Waste. <i>ACS Omega</i> , 2019 , 4, 19341-19349	19.49	10
60	Tapered multicore fiber interferometer for refractive index sensing with graphene enhancement. <i>Applied Optics</i> , 2020 , 59, 3927-3932	1.7	10
59	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
58	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
57	Boosting energy efficiency and stability of Li-CO battery via synergy between Ru atom cluster and single atom Ru-N site in electrocatalyst cathode.. <i>Advanced Materials</i> , 2022 , e2200559	24	10
56	Optical Fiber Polarizer With Fe ₃ O ₄ Film for Corrosion Monitoring. <i>IEEE Sensors Journal</i> , 2017 , 17, 6904-6910		9
55	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
54	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
53	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

52	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
51	Atmospheric corrosion monitoring of field-exposed Q235B and T91 steels in Zhoushan offshore environment using electrochemical probes. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017 , 32, 1433-1440	1	7
50	Phase Transfer of Mo 2 C Induced by Boron Doping to Boost Nitrogen Reduction Reaction Catalytic Activity. <i>Advanced Functional Materials</i> , 2110783	15.6	7
49	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
48	Engineering cobalt sulfide/oxide heterostructure with atomically mixed interfaces for synergistic electrocatalytic water splitting. <i>Nano Research</i> , 1	10	7
47	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
46	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
45	Optical corrosion sensor based on fiber Bragg grating electroplated with Fe-C film. <i>Optical Engineering</i> , 2014 , 53, 077104	1.1	6
44	Defective Bimetallic Selenides for Selective CO Electroreduction to CO. <i>Advanced Materials</i> , 2021 , e2106354	2.1	6
43	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
42	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
41	Pt Monolayers on Electrodeposited Nanoparticles of Different Compositions for Ammonia Electro-Oxidation. <i>Catalysts</i> , 2019 , 9, 4	4	5
40	Bimetallic Multi-Level Layered Co-NiOOH/Ni S @NF Nanosheet for Hydrogen Evolution Reaction in Alkaline Medium.. <i>Small</i> , 2022 , e2106904	11	5
39	Rational Design and Spontaneous Sulfurization of NiCo-(oxy)Hydroxysulfides Nanosheets with Modulated Local Electronic Configuration for Enhancing Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2103275	21.8	5
38	Bridge continuous deformation measurement technology based on fiber optic gyro. <i>Photonic Sensors</i> , 2016 , 6, 71-77	2.3	4
37	Fabrication of the Ni-NiCl Composite Cathode Material for Fast-Response Thermal Batteries. <i>Frontiers in Chemistry</i> , 2021 , 9, 679231	5	4
36	Influence of Acid Treatment on the Loading and Release Behavior of Halloysite with 2-Mercaptobenzothiazole. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 7178-7184	1.3	3
35	Preparation of NiFe@NC/CC Integrated Electrode and Its Application in Zinc-Air Battery. <i>Frontiers in Chemistry</i> , 2020 , 8, 575288	5	3

34	2D and 3D Shape Sensing Based on 7-Core Fiber Bragg Gratings. <i>Photonic Sensors</i> , 2020 , 10, 306-315	2.3	3
33	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
32	Sensing the Instant Corrosivity of Haze Using Electrochemical Probes by Electrochemical Noise Technique. <i>Electrochemistry</i> , 2017 , 85, 784-789	1.2	3
31	Hydrothermal synthesis, characterisation and growth mechanism of Ni(SO ₄) _{0.3} (OH) _{1.4} nanowires. <i>Micro and Nano Letters</i> , 2015 , 10, 567-572	0.9	3
30	Progress and Perspective of Metallic Glasses for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2101092	21.8	3
29	Tapered multicore fiber interferometer for ultra-sensitive temperature sensing with thermo-optical materials. <i>Optics Express</i> , 2021 , 29, 35765-35775	3.3	3
28	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
27	Online Monitoring of the Atmospheric Corrosion of Aluminium Alloys Using Electrochemical Noise Technique. <i>Russian Journal of Electrochemistry</i> , 2018 , 54, 623-628	1.2	3
26	Designing Nanoporous Coral-Like Pt Nanowires Architecture for Methanol and Ammonia Oxidation Reactions. <i>Advanced Functional Materials</i> , 2022 , 32, 2110702	15.6	3
25	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
24	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
23	Refractive index interferometer based on SMF-MMF-TMCF-SMF structure with low temperature sensitivity. <i>Optical Fiber Technology</i> , 2020 , 57, 102233	2.4	2
22	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
21	Corrosion of Fe-C coated FBG sensor and rebars: a comparative study 2012 ,		2
20	Effect of Interlayers on Microstructure and Properties of 2205/Q235B Duplex Stainless Steel Clad Plate. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 679-692	2.5	2
19	Effect of Process Parameters on Electrodeposited Nanocrystalline Chromium Coatings Investigated by an Orthogonal Experiment. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 857-866	0.9	2
18	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
17	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

16	Simultaneous measurement of refractive index and temperature based on reflective LPG-FBGs 2019 ,		1
15	Numerical solution of strongly guided modes propagating in sapphire crystal fibers (Al ₂ O ₃) for UV, VIS/IR wave-guiding. <i>Results in Physics</i> , 2020 , 18, 103311	3.7	1
14	Methods for producing an easily assembled zinc-air battery. <i>MethodsX</i> , 2020 , 7, 100973	1.9	1
13	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. <i>Batteries and Supercaps</i> , 2020 , 3, 1261-1261	5.6	1
12	Finite-Element Analysis on Percolation Performance of Foam Zinc. <i>ACS Omega</i> , 2018 , 3, 11018-11025	3.9	1
11	Wavelength-Dependent Polarization Beam Splitter Based on Birefringent Tapered Multicore Fiber. <i>Journal of Lightwave Technology</i> , 2022 , 40, 2128-2135	4	0
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	van der Waals forces enhanced light-graphene interaction in optical microfiber polarizer. <i>AIP Advances</i> , 2022 , 12, 045027	1.5	0
4	Study on Wettability and Corrosion Behavior of Al ₂ O ₃ Doped Polyurea Coatings. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 965-972	0.9	
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	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	
1	Development and Challenges of Biphasic Membrane-Less Redox Batteries.. <i>Advanced Science</i> , 2022 , e2105468	25.68	