

Wenbin Hu

List of Publications by Year in Descending Order

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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	Wavelength-Dependent Polarization Beam Splitter Based on Birefringent Tapered Multicore Fiber. <i>Journal of Lightwave Technology</i> , 2022 , 40, 2128-2135	4	0
158	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
157	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	
156	Bimetallic Multi-Level Layered Co-NiOOH/Ni S @NF Nanosheet for Hydrogen Evolution Reaction in Alkaline Medium.. <i>Small</i> , 2022 , e2106904	11	5
155	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
154	Development and Challenges of Biphasic Membrane-Less Redox Batteries.. <i>Advanced Science</i> , 2022 , e2105468	15.6	3
153	Designing Nanoporous Coral-Like Pt Nanowires Architecture for Methanol and Ammonia Oxidation Reactions. <i>Advanced Functional Materials</i> , 2022 , 32, 2110702	15.6	3
152	van der Waals forces enhanced light-graphene interaction in optical microfiber polarizer. <i>AIP Advances</i> , 2022 , 12, 045027	1.5	0
151	Extreme Environmental Thermal Shock Induced Dislocation-Rich Pt Nanoparticles Boosting Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2021 , 34, e2106973	24	11
150	Defective Bimetallic Selenides for Selective CO Electroreduction to CO. <i>Advanced Materials</i> , 2021 , e2106354	24	6
149	Tapered multicore fiber interferometer for ultra-sensitive temperature sensing with thermo-optical materials. <i>Optics Express</i> , 2021 , 29, 35765-35775	3.3	3
148	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
147	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
146	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
145	Fabrication of the Ni-NiCl Composite Cathode Material for Fast-Response Thermal Batteries. <i>Frontiers in Chemistry</i> , 2021 , 9, 679231	5	4
144	Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006461	24	18
143	Life-Cycle Economic Evaluation of Batteries for Electeochemical Energy Storage Systems. <i>Journal of Electrical Engineering and Technology</i> , 2021 , 16, 2497	1.4	0

142	Confronting the Challenges in Lithium Anodes for Lithium Metal Batteries. <i>Advanced Science</i> , 2021 , 8, e2101111	13.6	22
141	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
140	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
139	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
138	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
137	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
136	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
135	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
134	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
133	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	
132	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	
131	Preparation of NiFe@NC/CC Integrated Electrode and Its Application in Zinc-Air Battery. <i>Frontiers in Chemistry</i> , 2020 , 8, 575288	5	3
130	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
129	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
128	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
127	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
126	Acceptor-Doping Accelerated Charge Separation in Cu ₂ O Photocathode for Photoelectrochemical Water Splitting: Theoretical and Experimental Studies. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18463-18467	16.4	31
125	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

124	2D and 3D Shape Sensing Based on 7-Core Fiber Bragg Gratings. <i>Photonic Sensors</i> , 2020 , 10, 306-315	2.3	3
123	Decoupling electrolytes towards stable and high-energy rechargeable aqueous zinc-manganese dioxide batteries. <i>Nature Energy</i> , 2020 , 5, 440-449	62.3	203
122	Advanced Characterization Techniques for Identifying the Key Active Sites of Gas-Involved Electrocatalysts. <i>Advanced Functional Materials</i> , 2020 , 30, 2001704	15.6	11
121	Carbon-based cathode materials for rechargeable zinc-air batteries: From current collectors to bifunctional integrated air electrodes 2020 , 2, 370-386		35
120	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
119	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
118	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
117	Review of Emerging Potassium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e1908007	24	51
116	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
115	Tapered multicore fiber interferometer for refractive index sensing with graphene enhancement. <i>Applied Optics</i> , 2020 , 59, 3927-3932	1.7	10
114	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
113	Battery Technologies for Grid-Level Large-Scale Electrical Energy Storage. <i>Transactions of Tianjin University</i> , 2020 , 26, 92-103	2.9	65
112	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
111	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
110	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
109	Air-Assisted Transient Synthesis of Metastable Nickel Oxide Boosting Alkaline Fuel Oxidation Reaction. <i>Advanced Energy Materials</i> , 2020 , 10, 2001397	21.8	23
108	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
107	High-Temperature Shock Enabled Nanomanufacturing for Energy-Related Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2001331	21.8	41

106	Methods for producing an easily assembled zinc-air battery. <i>MethodsX</i> , 2020 , 7, 100973	1.9	1
105	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. <i>Batteries and Supercaps</i> , 2020 , 3, 1262-1274	5.6	14
104	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
103	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. <i>Batteries and Supercaps</i> , 2020 , 3, 1261-1261	5.6	1
102	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
101	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
100	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
99	Nanomanufacturing of RGO-CNT Hybrid Film for Flexible Aqueous Al-Ion Batteries. <i>Small</i> , 2020 , 16, e2002856	2.856	17
98	Thermal Shock-Activated Spontaneous Growing of Nanosheets for Overall Water Splitting. <i>Nano-Micro Letters</i> , 2020 , 12, 162	19.5	31
97	Dislocation-Strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2020 , 32, e2006034	24	56
96	Lattice-Strain Engineering of Homogeneous NiS Se Core-Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2020 , 32, e2000231	24	79
95	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
94	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
93	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
92	Challenges in Zinc Electrodes for Alkaline Zinc-Air Batteries: Obstacles to Commercialization. <i>ACS Energy Letters</i> , 2019 , 4, 2259-2270	20.1	147
91	Porous Zinc Anode Design for Zn-air Chemistry. <i>Frontiers in Chemistry</i> , 2019 , 7, 656	5	13
90	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
89	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

88	Advances in the development of power supplies for the Internet of Everything. <i>Informa Mater</i> , 2019 , 1, 130-139	23.1	67
87	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
86	Sulfur-Grafted Hollow Carbon Spheres for Potassium-Ion Battery Anodes. <i>Advanced Materials</i> , 2019 , 31, e1900429	24	172
85	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
84	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
83	Recent Progress in Advanced Characterization Methods for Silicon-Based Lithium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1900158	12.8	20
82	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
81	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
80	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
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	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
71	Toward Flexible and Wearable Zn-Air Batteries from Cotton Textile Waste. <i>ACS Omega</i> , 2019 , 4, 19341-19349	13.4	10

70	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
69	Utilizing solar energy to improve the oxygen evolution reaction kinetics in zinc-air battery. <i>Nature Communications</i> , 2019 , 10, 4767	17.4	101
68	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
67	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
66	Simultaneous measurement of refractive index and temperature based on reflective LPG-FBGs 2019 ,		1
65	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
64	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
63	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
62	Pt Monolayers on Electrodeposited Nanoparticles of Different Compositions for Ammonia Electro-Oxidation. <i>Catalysts</i> , 2019 , 9, 4	4	5
61	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
60	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
59	Corrosion behavior of X65 steel in seawater containing sulfate reducing bacteria under aerobic conditions. <i>Bioelectrochemistry</i> , 2018 , 122, 40-50	5.6	17
58	Controllable Synthesis of Ni Se (0.5 x 1) Nanocrystals for Efficient Rechargeable Zinc-Air Batteries and Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13675-13684	9.5	80
57	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
56	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
55	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
54	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
53	Atomic Layer Co O Nanosheets: The Key to Knittable Zn-Air Batteries. <i>Small</i> , 2018 , 14, e1702987	11	51

52	Phase and composition controlled synthesis of cobalt sulfide hollow nanospheres for electrocatalytic water splitting. <i>Nanoscale</i> , 2018 , 10, 4816-4824	7.7	165
51	Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1702222	21.8	182
50	Self-Assembly of Graphene-Encapsulated Cu Composites for Nonenzymatic Glucose Sensing. <i>ACS Omega</i> , 2018 , 3, 3420-3428	3.9	23
49	Mesoporous Graphitic Carbon-Encapsulated Fe O Nanocomposite as High-Rate Anode Material for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 14786-14793	4.8	21
48	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
47	Metal-Air Batteries: From Static to Flow System. <i>Advanced Energy Materials</i> , 2018 , 8, 1801396	21.8	104
46	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
45	In Situ Fabrication of Heterostructure on Nickel Foam with Tuned Composition for Enhancing Water-Splitting Performance. <i>Small</i> , 2018 , 14, e1803666	11	62
44	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
43	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
42	Finite-Element Analysis on Percolation Performance of Foam Zinc. <i>ACS Omega</i> , 2018 , 3, 11018-11025	3.9	1
41	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
40	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
39	Review of Hybrid Ion Capacitors: From Aqueous to Lithium to Sodium. <i>Chemical Reviews</i> , 2018 , 118, 6457-6498	64.98	504
38	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
37	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
36	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
35	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

34	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
33	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
32	Fabrication and properties of a superhydrophobic film on an electroless plated magnesium alloy. <i>RSC Advances</i> , 2017 , 7, 28909-28917	3.7	21
31	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
30	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
29	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
28	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
27	Sandwich nanostructured LiMnPO ₄ /C as enhanced cathode materials for lithium-ion batteries. <i>Journal of Materials Science</i> , 2017 , 52, 3597-3612	4.3	11
26	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
25	Optical Fiber Polarizer With Fe ^{II} Film for Corrosion Monitoring. <i>IEEE Sensors Journal</i> , 2017 , 17, 6904-6910		9
24	Sensing the Instant Corrosivity of Haze Using Electrochemical Probes by Electrochemical Noise Technique. <i>Electrochemistry</i> , 2017 , 85, 784-789	1.2	3
23	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
22	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
21	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
20	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
19	Bridge continuous deformation measurement technology based on fiber optic gyro. <i>Photonic Sensors</i> , 2016 , 6, 71-77	2.3	4
18	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
17	Fiber Optic Hydrogen Sensor Based on Fabry-Berot Interferometer Coated With Sol-Gel Pt/WO ₃ Coating. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2530-2534	4	22

16	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
15	A review of electrolyte materials and compositions for electrochemical supercapacitors. <i>Chemical Society Reviews</i> , 2015 , 44, 7484-539	58.5	2002
14	Sapphire Fiber High-Temperature Tip Sensor With Multilayer Coating. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 741-743	2.2	12
13	Sub-3 nm Co ₃ O ₄ nanofilms with enhanced supercapacitor properties. <i>ACS Nano</i> , 2015 , 9, 1730-9	16.7	222
12	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
11	Optical corrosion sensor based on fiber Bragg grating electroplated with Fe-C film. <i>Optical Engineering</i> , 2014 , 53, 077104	1.1	6
10	Corrosion of Fe-C coated FBG sensor and rebars: a comparative study 2012 ,		2
9	Fe-C coated fibre Bragg grating sensor for steel corrosion monitoring. <i>Corrosion Science</i> , 2011 , 53, 1933-1938	19.8	41
8	Progress and Perspective of Metallic Glasses for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2101092	21.8	3
7	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
6	Multiple Twin Boundary-Regulated Metastable Pd for Ethanol Oxidation Reaction. <i>Advanced Energy Materials</i> , 2103505	21.8	11
5	Engineering cobalt sulfide/oxide heterostructure with atomically mixed interfaces for synergistic electrocatalytic water splitting. <i>Nano Research</i> , 1	10	7
4	Building a Library for Catalysts Research Using High-Throughput Approaches. <i>Advanced Functional Materials</i> , 2107862	15.6	0
3	Ir Single Atoms Doped Cuboctahedral Pd for Boosted Methanol Oxidation Reaction. <i>Particle and Particle Systems Characterization</i> , 2200013	3.1	0
2	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
1	Nanoporous nickel with rich adsorbed oxygen for efficient alkaline hydrogen evolution electrocatalysis. <i>Science China Materials</i> , 1	7.1	0