

Xiao-Peng Han

List of Publications by Year in descending order

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193
papers

17,944
citations

9786

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14208

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203
all docs

203
docs citations

203
times ranked

15727
citing authors

#	ARTICLE	IF	CITATIONS
1	The applications of single-atom alloys in electrocatalysis: Progress and challenges. <i>SmartMat</i> , 2023, 4, .	10.7	19
2	Engineering cobalt sulfide/oxide heterostructure with atomically mixed interfaces for synergistic electrocatalytic water splitting. <i>Nano Research</i> , 2022, 15, 1246-1253.	10.4	43
3	Building a Library for Catalysts Research Using High-Throughput Approaches. <i>Advanced Functional Materials</i> , 2022, 32, 2107862.	14.9	13
4	Investigation of failure mechanism of rechargeable zinc-air batteries with poly(acrylic acid) alkaline gel electrolyte during discharge-charge cycles at different current densities. <i>Chemical Engineering Journal</i> , 2022, 429, 132331.	12.7	36
5	Defective Bimetallic Selenides for Selective CO ₂ Electroreduction to CO. <i>Advanced Materials</i> , 2022, 34, e2106354.	21.0	43
6	Atomically Dispersed Selenium Sites on Nitrogen-Doped Carbon for Efficient Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	14
7	Atomically Dispersed Selenium Sites on Nitrogen-Doped Carbon for Efficient Electrocatalytic Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	80
8	Multiple Twin Boundary-Regulated Metastable Pd for Ethanol Oxidation Reaction. <i>Advanced Energy Materials</i> , 2022, 12, 2103505.	19.5	51
9	Highly Active and Durable Single-Atom Tungsten-Doped Ni _{0.5} Se _{0.5} Nanosheet@Ni _{0.5} Se _{0.5} Nanorod Heterostructures for Water Splitting. <i>Advanced Materials</i> , 2022, 34, e2107053.	21.0	136
10	Reversible Zn stripping/plating achieved by surface thin Sn layer for high-performance aqueous zinc metal batteries. <i>Journal of Materials Science and Technology</i> , 2022, 117, 72-78.	10.7	9
11	Progress and Perspective of Metallic Glasses for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	19
12	Heterointerface Engineering of Hierarchically Assembling Layered Double Hydroxides on Cobalt Selenide as Efficient Trifunctional Electrocatalysts for Water Splitting and Zinc-Air Battery. <i>Advanced Science</i> , 2022, 9, e2104522.	11.2	79
13	Phase Transfer of Mo ₂ C Induced by Boron Doping to Boost Nitrogen Reduction Reaction Catalytic Activity. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	51
14	Regulating metal active sites of atomically-thin nickel-doped spinel cobalt oxide toward enhanced oxygen electrocatalysis. <i>Chemical Engineering Journal</i> , 2022, 435, 134261.	12.7	28
15	Ir Single Atoms Doped Cuboctahedral Pd for Boosted Methanol Oxidation Reaction. <i>Particle and Particle Systems Characterization</i> , 2022, 39, .	2.3	4
16	Bimetallic Multi-Level Layered CoNiOOH/Ni ₃ S ₂ @NF Nanosheet for Hydrogen Evolution Reaction in Alkaline Medium. <i>Small</i> , 2022, 18, e2106904.	10.0	31
17	Rational Design and Spontaneous Sulfurization of NiCo-(oxy)Hydroxysulfides Nanosheets with Modulated Local Electronic Configuration for Enhancing Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	74
18	Nanoporous nickel with rich adsorbed oxygen for efficient alkaline hydrogen evolution electrocatalysis. <i>Science China Materials</i> , 2022, 65, 1825-1832.	6.3	6

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37	Inversely Tuning the CO ₂ Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. <i>Angewandte Chemie</i> , 2021, 133, 7680-7684.	2.0	15
38	Sub-2 nm Thiophosphate Nanosheets with Heteroatom Doping for Enhanced Oxygen Electrocatalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2100618.	14.9	133
39	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.	5.1	26
40	Micronanostructured Design of Dendrite-Free Zinc Anodes and Their Applications in Aqueous Zinc-Based Rechargeable Batteries. <i>Small Structures</i> , 2021, 2, 2000128.	12.0	79
41	Spin State Tuning of the Octahedral Sites in Ni-Co-Based Spinel toward Highly Efficient Urea Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9190-9199.	3.1	25
42	Fabrication of the Ni-NiCl ₂ Composite Cathode Material for Fast-Response Thermal Batteries. <i>Frontiers in Chemistry</i> , 2021, 9, 679231.	3.6	15
43	A review of non-noble metal-based electrocatalysts for CO ₂ electroreduction. <i>Rare Metals</i> , 2021, 40, 3019.	7.1	74
44	Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2021, 33, e2006461.	21.0	63
45	Metal chalcogenides: An emerging material for electrocatalysis. <i>APL Materials</i> , 2021, 9, .	5.1	26
46	Dual-Sites Coordination Engineering of Single Atom Catalysts for Flexible Metal-Air Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101242.	19.5	247
47	Encapsulating Cobalt Nanoparticles in Interconnected N-Doped Hollow Carbon Nanofibers with Enriched Co _{1-x} Ni _x C Moiety for Enhanced Oxygen Electrocatalysis in Zn-Air Batteries. <i>Advanced Science</i> , 2021, 8, e2101438.	11.2	104
48	Zinc-Air Batteries: Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zinc-Air Batteries (<i>Adv. Mater.</i> 31/2021). <i>Advanced Materials</i> , 2021, 33, 2170243.	21.0	3
49	Strategies for Optimizing the Photocatalytic Water-Splitting Performance of Metal-Organic Framework-Based Materials. <i>Small Science</i> , 2021, 1, 2100060.	9.9	31
50	A novel NiCl ₂ -based cathode material for high-voltage thermal battery. <i>Materials Letters</i> , 2021, 301, 130272.	2.6	14
51	Controlled Synthesis of Ni-Doped MoS ₂ Hybrid Electrode for Synergistically Enhanced Water-Splitting Process. <i>Chemistry - A European Journal</i> , 2020, 26, 4097-4103.	3.3	23
52	Enhanced hydrogen production from ammonia borane over CuNi alloy nanoparticles supported on TiO ₂ (B)/anatase mixed-phase nanofibers with high specific surface area. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152431.	5.5	33
53	Surface/interface engineering of noble-metals and transition metal-based compounds for electrocatalytic applications. <i>Journal of Materials Science and Technology</i> , 2020, 38, 221-236.	10.7	23
54	Powder metallurgy synthesis of porous Ni-Fe alloy for oxygen evolution reaction and overall water splitting. <i>Journal of Materials Science and Technology</i> , 2020, 37, 154-160.	10.7	23

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55	Battery Technologies for Grid-Level Large-Scale Electrical Energy Storage. Transactions of Tianjin University, 2020, 26, 92-103.	6.4	146
56	Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. Angewandte Chemie - International Edition, 2020, 59, 5092-5101.	13.8	45
57	Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. Angewandte Chemie, 2020, 132, 5130-5139.	2.0	14
58	Low-temperature strategy toward Ni-NC@Ni core-shell nanostructure with Single-Ni sites for efficient CO ₂ electroreduction. Nano Energy, 2020, 77, 105010.	16.0	70
59	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. Batteries and Supercaps, 2020, 3, 1262-1274.	4.7	53
60	Kirigami-Inspired Flexible and Stretchable Zinc-Air Battery Based on Metal-Coated Sponge Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 54833-54841.	8.0	30
61	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. Batteries and Supercaps, 2020, 3, 1261-1261.	4.7	1
62	Facile High Throughput Wet-Chemical Synthesis Approach Using a Microfluidic-Based Composition and Temperature Controlling Platform. Frontiers in Chemistry, 2020, 8, 579828.	3.6	13
63	3D Foam Anode and Hydrogel Electrolyte for High-Performance and Stable Flexible Zinc-Air Battery. ChemistrySelect, 2020, 5, 8305-8310.	1.5	15
64	Thermal Shock-Activated Spontaneous Growing of Nanosheets for Overall Water Splitting. Nano-Micro Letters, 2020, 12, 162.	27.0	59
65	Cobalt-Doped NiS ₂ Micro/Nanostructures with Complete Solid Solubility as High-Performance Cathode Materials for Actual High-Specific-Energy Thermal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 50377-50387.	8.0	39
66	Dislocation-Strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. Advanced Materials, 2020, 32, e2006034.	21.0	148
67	Lattice-Strain Engineering of Homogeneous NiS _{0.5} Se _{0.5} Core-Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. Advanced Materials, 2020, 32, e2000231.	21.0	158
68	Sequential Electrodeposition of Bifunctional Catalytically Active Structures in MoO ₃ /Ni@NiO Composite Electrocatalysts for Selective Hydrogen and Oxygen Evolution. Advanced Materials, 2020, 32, e2003414.	21.0	206
69	Preparation of Ni ₃ Fe ₂ @NC/CC Integrated Electrode and Its Application in Zinc-Air Battery. Frontiers in Chemistry, 2020, 8, 575288.	3.6	4
70	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). Advanced Materials, 2020, 32, 2070172.	21.0	5
71	Identifying Dense NiSe ₂ /CoSe ₂ Heterointerfaces Coupled with Surface High-Valence Bimetallic Sites for Synergistically Enhanced Oxygen Electrocatalysis. Advanced Materials, 2020, 32, e2000607.	21.0	251
72	Hierarchical Porous NiS@NiO Nanoarrays in Situ Grown on Nickel Foam as Superior Electrocatalyst for Water Splitting. International Journal of Electrochemical Science, 2020, 15, 3563-3577.	1.3	7

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73	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.	3.3	4
74	Tungsten disulfide-based nanomaterials for energy conversion and storage. <i>Tungsten</i> , 2020, 2, 109-133.	4.8	37
75	Acceptor-doping Accelerated Charge Separation in Cu ₂ O Photocathode for Photoelectrochemical Water Splitting: Theoretical and Experimental Studies. <i>Angewandte Chemie</i> , 2020, 132, 18621-18625.	2.0	13
76	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.	13.8	82
77	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, .	2.0	1
78	Decoupling electrolytes towards stable and high-energy rechargeable aqueous zinc-manganese dioxide batteries. <i>Nature Energy</i> , 2020, 5, 440-449.	39.5	430
79	Frontispiece: 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, .	13.8	0
80	Advanced Characterization Techniques for Identifying the Key Active Sites of Gas-involved Electrocatalysts. <i>Advanced Functional Materials</i> , 2020, 30, 2001704.	14.9	19
81	Carbon-based cathode materials for rechargeable zinc-air batteries: From current collectors to bifunctional integrated air electrodes. , 2020, 2, 370-386.		82
82	Spontaneous Synthesis of Silver-Nanoparticle-Decorated Transition-Metal Hydroxides for Enhanced Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7245-7250.	13.8	196
83	Spontaneous Synthesis of Silver-Nanoparticle-Decorated Transition-Metal Hydroxides for Enhanced Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2020, 132, 7312-7317.	2.0	12
84	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.	8.0	38
85	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.	21.0	172
86	Electrocatalysis: Mesoporous Decoration of Freestanding Palladium Nanotube Arrays Boosts the Electrocatalysis Capabilities toward Formic Acid and Formate Oxidation (<i>Adv. Energy Mater.</i> 25/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970100.	19.5	1
87	Interface engineering of NiS ₂ /CoS ₂ nanohybrids as bifunctional electrocatalysts for rechargeable solid state Zn-air battery. <i>Journal of Power Sources</i> , 2019, 437, 226893.	7.8	54
88	Long-Shelf-Life Polymer Electrolyte Based on Tetraethylammonium Hydroxide for Flexible Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28909-28917.	8.0	81
89	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.	21.0	537
90	Utilizing solar energy to improve the oxygen evolution reaction kinetics in zinc-air battery. <i>Nature Communications</i> , 2019, 10, 4767.	12.8	199

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91	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.	3.6	32
92	In situ formation and superior lithium storage properties of tentacle-like ZnO@NC@CNTs composites. <i>Nanoscale Advances</i> , 2019, 1, 1200-1206.	4.6	16
93	Porous Zinc Anode Design for Zn-air Chemistry. <i>Frontiers in Chemistry</i> , 2019, 7, 656.	3.6	26
94	Enhanced antibacterial properties of biocompatible titanium <i>via</i> electrochemically deposited Ag/TiO ₂ nanotubes and chitosan-gelatin-Ag-ZnO complex coating. <i>RSC Advances</i> , 2019, 9, 4521-4529.	3.6	19
95	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.	10.3	76
96	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.	19.5	72
97	Recent Progress in Advanced Characterization Methods for Silicon-Based Lithium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900158.	8.6	30
98	Charge redistribution of Co on cobalt (II) oxide surface for enhanced oxygen evolution electrocatalysis. <i>Nano Energy</i> , 2019, 61, 267-274.	16.0	35
99	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.	5.1	15
100	Identifying the Activation of Bimetallic Sites in NiCo ₂ S ₄ @C ₃ N ₄ -CNT Hybrid Electrocatalysts for Synergistic Oxygen Reduction and Evolution. <i>Advanced Materials</i> , 2019, 31, e1808281.	21.0	315
101	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.	6.3	43
102	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.	2.0	106
103	Controllable synthesis of nickel sulfide nanocatalysts and their phase-dependent performance for overall water splitting. <i>Nanoscale</i> , 2019, 11, 5646-5654.	5.6	148
104	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.	13.8	500
105	Bifunctional hydroxyl group over polymeric carbon nitride to achieve photocatalytic H ₂ O 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.	4.1	37
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.	10.3	61
107	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.	6.0	29
108	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.	8.0	84

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109	Porous nanocomposite gel polymer electrolyte with high ionic conductivity and superior electrolyte retention capability for long-cycle-life flexible zinc-air batteries. <i>Nano Energy</i> , 2019, 56, 454-462.	16.0	212
110	Enhanced light harvesting and electron-hole separation for efficient photocatalytic hydrogen evolution over Cu ₇ S ₄ -enwrapped Cu ₂ O nanocubes. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 202-210.	20.2	71
111	Ferroelectric polarization promoted bulk charge separation for highly efficient CO ₂ photoreduction of SrBi ₄ Ti ₄ O ₁₅ . <i>Nano Energy</i> , 2019, 56, 840-850.	16.0	144
112	Size-controllable synthesis and high-performance formic acid oxidation of polycrystalline Pd nanoparticles. <i>Rare Metals</i> , 2019, 38, 115-121.	7.1	17
113	Solution process synthesis of morphology-controllable CoSe ₂ nanocrystals with efficient bifunctional catalytic activity. <i>Ferroelectrics</i> , 2018, 523, 126-133.	0.6	1
114	Nitrogen, Fluorine, and Boron Ternary Doped Carbon Fibers as Cathode Electrocatalysts for Zinc-Air Batteries. <i>Small</i> , 2018, 14, e1800737.	10.0	159
115	Controllable Synthesis of Ni _x 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.	8.0	116
116	Metal Air Batteries: Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis (<i>Adv. Energy Mater.</i> 10/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870043.	19.5	10
117	One-step synthesis of the PdPt bimetallic nanodendrites with controllable composition for methanol oxidation reaction. <i>Science China Materials</i> , 2018, 61, 697-706.	6.3	37
118	Zinc-Air Batteries: Atomically Thin Mesoporous Co ₃ O ₄ Layers Strongly Coupled with N-GO Nanosheets as High-Performance Bifunctional Catalysts for 1D Knittable Zinc-Air Batteries (<i>Adv. Mater.</i> 4/2018). <i>Advanced Materials</i> , 2018, 30, 1870027.	21.0	4
119	In-situ multi-deposition process for cobalt-sulfide synthesis with efficient bifunctional catalytic activity. <i>Ferroelectrics</i> , 2018, 523, 119-125.	0.6	5
120	Atomic Layer Co ₃ O ₄ Nanosheets: The Key to Knittable Zn-Air Batteries. <i>Small</i> , 2018, 14, e1702987.	10.0	68
121	Phase and composition controlled synthesis of cobalt sulfide hollow nanospheres for electrocatalytic water splitting. <i>Nanoscale</i> , 2018, 10, 4816-4824.	5.6	256
122	Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1702222.	19.5	243
123	Ternary doped porous carbon nanofibers with excellent ORR and OER performance for zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10918-10925.	10.3	199
124	Electrochemical Oxidation of Chlorine-Doped Co(OH) ₂ Nanosheet Arrays on Carbon Cloth as a Bifunctional Oxygen Electrode. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 796-805.	8.0	79
125	Pyrite-Type CoS ₂ Nanoparticles Supported on Nitrogen-Doped Graphene for Enhanced Water Splitting. <i>Frontiers in Chemistry</i> , 2018, 6, 569.	3.6	32
126	Air-stable phosphorus-doped molybdenum nitride for enhanced electrocatalytic hydrogen evolution. <i>Communications Chemistry</i> , 2018, 1, .	4.5	36

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127	Controllable synthesis of Co ₂ P nanorods as high-efficiency bifunctional electrocatalyst for overall water splitting. <i>Journal of Power Sources</i> , 2018, 402, 345-352.	7.8	51
128	Thickness-Dependent Facet Junction Control of Layered BiOIO ₃ Single Crystals for Highly Efficient CO ₂ Photoreduction. <i>Advanced Functional Materials</i> , 2018, 28, 1804284.	14.9	358
129	In Situ Fabrication of Heterostructure on Nickel Foam with Tuned Composition for Enhancing Water-Splitting Performance. <i>Small</i> , 2018, 14, e1803666.	10.0	100
130	Zinc-Air Batteries: Atomic Layer Co ₃ O ₄ Nanosheets: The Key to Knittable Zn-Air Batteries (<i>Small</i> 43/2018). <i>Small</i> , 2018, 14, 1870200.	10.0	11
131	Finite-Element Analysis on Percolation Performance of Foam Zinc. <i>ACS Omega</i> , 2018, 3, 11018-11025.	3.5	2
132	Electrocatalysis: Ultrafine Pt Nanoparticle-Decorated Pyrite-Type CoS ₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting (<i>Adv. Energy Mater.</i>) <i>Tj ETQq0 0 0 rg0.5/Overlock 10 Tf 5</i>	19.5	234
133	Electronic and Defective Engineering of Electrospun CaMnO ₃ Nanotubes for Enhanced Oxygen Electrocatalysis in Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1800612.	19.5	234
134	Graphene Hybrids: Identifying the Key Role of Pyridinic-N-Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER (<i>Adv. Mater.</i> 23/2018). <i>Advanced Materials</i> , 2018, 30, 1870164.	21.0	13
135	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.	19.5	286
136	In Situ Electrodeposition of Cobalt Sulfide Nanosheet Arrays on Carbon Cloth as a Highly Efficient Bifunctional Electrocatalyst for Oxygen Evolution and Reduction Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30433-30440.	8.0	69
137	One-Step Fabrication and Localized Electrochemical Characterization of Continuous Al-Alloyed Intermetallic Surface Layer on Magnesium Alloy. <i>Coatings</i> , 2018, 8, 148.	2.6	9
138	Metal-Air Batteries: From Static to Flow System. <i>Advanced Energy Materials</i> , 2018, 8, 1801396.	19.5	156
139	Identifying the Key Role of Pyridinic-N-Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER. <i>Advanced Materials</i> , 2018, 30, e1800005.	21.0	394
140	Isolated Platinum Atoms Stabilized by Amorphous Tungstenic Acid: Metal-Support Interaction for Synergistic Oxygen Activation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9351-9356.	13.8	80
141	Isolated Platinum Atoms Stabilized by Amorphous Tungstenic Acid: Metal-Support Interaction for Synergistic Oxygen Activation. <i>Angewandte Chemie</i> , 2018, 130, 9495-9500.	2.0	7
142	Enhanced electrochemical performance of Na _{0.5} Ni _{0.25} Mn _{0.75} O ₂ micro-sheets at 3.8 V for Na-ion batteries with nanosized-thin AlF ₃ coating. <i>Nanoscale</i> , 2018, 10, 12625-12630.	5.6	24
143	Morphology Controllable Synthesis of NiO/NiFe ₂ O ₄ Hetero-Structures for Ultrafast Lithium-Ion Battery. <i>Frontiers in Chemistry</i> , 2018, 6, 654.	3.6	14
144	Atomically Thin Mesoporous Co ₃ O ₄ Layers Strongly Coupled with N-GO Nanosheets as High-Performance Bifunctional Catalysts for 1D Knittable Zinc-Air Batteries. <i>Advanced Materials</i> , 2018, 30, 1703657.	21.0	302

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145	Ultrathin Co ₃ O ₄ nanofilm as an efficient bifunctional catalyst for oxygen evolution and reduction reaction in rechargeable zinc-air batteries. <i>Nanoscale</i> , 2017, 9, 8623-8630.	5.6	90
146	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.	19.5	309
147	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.	8.0	39
148	Clarifying the Controversial Catalytic Performance of Co(OH) ₂ and Co ₃ O ₄ for Oxygen Reduction/Evolution Reactions toward Efficient Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22694-22703.	8.0	121
149	Morphology-Controllable Synthesis of Zn-Co-Mixed Sulfide Nanostructures on Carbon Fiber Paper Toward Efficient Rechargeable Zinc-Air Batteries and Water Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12574-12583.	8.0	154
150	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.	16.0	365
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