Xiao-Peng Han

List of Publications by Year
in descending order

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193 papers	17,944 citations	9775 73 h-index	14197 128 g-index
203 all docs	203 docs citations	203 times ranked	15727 citing authors

#	Article	IF	Citations
1	The applications of singleâ€atom alloys in electrocatalysis: Progress and challenges. SmartMat, 2023, 4, .	6.4	19
2	Engineering cobalt sulfide/oxide heterostructure with atomically mixed interfaces for synergistic electrocatalytic water splitting. Nano Research, 2022, 15, 1246-1253.	5.8	43
3	Building a Library for Catalysts Research Using Highâ€Throughput Approaches. Advanced Functional Materials, 2022, 32, 2107862.	7.8	13
4	Investigation of failure mechanism of rechargeable zincâ€“air batteries with poly(acrylic acid) alkaline gel electrolyte during dischargeâ€“charge cycles at different current densities. Chemical Engineering Journal, 2022, 429, 132331.	6.6	36
5	Defective Bimetallic Selenides for Selective CO₂ Electroreduction to CO. Advanced Materials, 2022, 34, e2106354.	11.1	43
6	Atomically Dispersed Selenium Sites on Nitrogenâ€Doped Carbon for Efficient Electrocatalytic Oxygen Reduction. Angewandte Chemie, 2022, 134, .	1.6	14
7	Atomically Dispersed Selenium Sites on Nitrogenâ€Doped Carbon for Efficient Electrocatalytic Oxygen Reduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	80
8	Multiple Twin Boundaryâ€Regulated Metastable Pd for Ethanol Oxidation Reaction. Advanced Energy Materials, 2022, 12, 2103505.	10.2	51
9	Highly Active and Durable Singleâ€Atom Tungstenâ€Doped NiS_{0.5}Se_{0.5} Nanosheetâ€Š@â€ŠNiS_{0.5}Se_{0.5} Nanorod Heterostructures for Water Splitting. Advanced Materials, 2022, 34, e2107053.	11.1	136
10	Reversible Zn stripping/plating achieved by surface thin Sn layer for high-performance aqueous zinc metal batteries. Journal of Materials Science and Technology, 2022, 117, 72-78.	5.6	9
11	Progress and Perspective of Metallic Glasses for Energy Conversion and Storage. Advanced Energy Materials, 2022, 12, .	10.2	19
12	Heterointerface Engineering of Hierarchically Assembling Layered Double Hydroxides on Cobalt Selenide as Efficient Trifunctional Electrocatalysts for Water Splitting and Zincâ€Air Battery. Advanced Science, 2022, 9, e2104522.	5.6	79
13	Phase Transfer of Mo₂C Induced by Boron Doping to Boost Nitrogen Reduction Reaction Catalytic Activity. Advanced Functional Materials, 2022, 32, .	7.8	51
14	Regulating metal active sites of atomically-thin nickel-doped spinel cobalt oxide toward enhanced oxygen electrocatalysis. Chemical Engineering Journal, 2022, 435, 134261.	6.6	28
15	Ir Single Atoms Doped Cuboctahedral Pd for Boosted Methanol Oxidation Reaction. Particle and Particle Systems Characterization, 2022, 39, .	1.2	4
16	Bimetallic Multiâ€Level Layered Coâ€NiOOH/Ni₃S₂@NF Nanosheet for Hydrogen Evolution Reaction in Alkaline Medium. Small, 2022, 18, e2106904.	5.2	31
17	Rational Design and Spontaneous Sulfurization of NiCoâ€(oxy)Hydroxysulfides Nanosheets with Modulated Local Electronic Configuration for Enhancing Oxygen Electrocatalysis. Advanced Energy Materials, 2022, 12, .	10.2	74
18	Nanoporous nickel with rich adsorbed oxygen for efficient alkaline hydrogen evolution electrocatalysis. Science China Materials, 2022, 65, 1825-1832.	3.5	6

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19	Boosting Energy Efficiency and Stability of Liâ€“CO₂ Batteries via Synergy between Ru Atom Clusters and Singleâ€Atom Ruâ€“N₄ sites in the Electrocatalyst Cathode. Advanced Materials, 2022, 34, e2200559.	11.1	83
20	Latticeâ€Matching Formed Mesoporous Transition Metal Oxide Heterostructures Advance Water Splitting by Active Feâ€“Oâ€“Cu Bridges. Advanced Energy Materials, 2022, 12, .	10.2	139
21	Ni-Doped Mo₂C Anchored on Graphitized Porous Carbon for Boosting Electrocatalytic N₂ Reduction. ACS Applied Materials & Interfaces, 2022, 14, 17273-17281.	4.0	12
22	Preparation and properties of Mg-doped Li-B alloy anode materials for high specific-capacity thermal batteries. Materials Letters, 2022, 316, 132038.	1.3	4
23	Scalable Preparation and Improved Discharge Properties of FeS2@CoS2 Cathode Materials for High-Temperature Thermal Battery. Nanomaterials, 2022, 12, 1360.	1.9	10
24	Dynamic stretchingâ€“electroplating metalâ€coated textile for a flexible and stretchable zincâ€“air battery. , 2022, 4, 867-877.		23
25	Correlating the crystal structure and facet of indium oxides with their activities for CO2 electroreduction. Fundamental Research, 2022, , .	1.6	1
26	Tailoring the spin state of active sites in amorphous transition metal sulfides to promote oxygen electrocatalysis. Science China Materials, 2022, 65, 3479-3489.	3.5	7
27	Preparation and properties of MnF3 cathode materials for high-voltage thermal batteries. Materials Letters, 2022, 324, 132686.	1.3	3
28	Single atoms (Pt, Ir and Rh) anchored on activated NiCo LDH for alkaline hydrogen evolution reaction. Chemical Communications, 2022, 58, 8254-8257.	2.2	15
29	Non-equilibrium synthesis of stacking faults-abundant Ru nanoparticles towards electrocatalytic water splitting. Applied Catalysis B: Environmental, 2022, 316, 121682.	10.8	16
30	Promoting the charge separation and photoelectrocatalytic water reduction kinetics of Cu2O nanowires via decorating dual-cocatalysts. Journal of Materials Science and Technology, 2021, 62, 119-127.	5.6	11
31	Understanding the Gap between Academic Research and Industrial Requirements in Rechargeable Zincâ€ion Batteries. Batteries and Supercaps, 2021, 4, 60-71.	2.4	32
32	å¾®çº³ç»“æž„è¿‡æ¡é‡‘å±žåŒ–åˆç‰©èƒ½é‡å˜å‚¨ææ–™. Science China Materials, 2021, 64, 1-26.	8.1	36
33	Ultrafast Synthesis for Functional Nanomaterials. Cell Reports Physical Science, 2021, 2, 100302.	2.8	34
34	Cobalt sulfides constructed heterogeneous interfaces decorated on N,S-codoped carbon nanosheets as a highly efficient bifunctional oxygen electrocatalyst. Journal of Materials Chemistry A, 2021, 9, 13926-13935.	5.2	27
35	Controlled Synthesis and Structure Engineering of Transition Metalâ€based Nanomaterials for Oxygen and Hydrogen Electrocatalysis in Zincâ€Air Battery and Waterâ€Splitting Devices. ChemSusChem, 2021, 14, 1659-1673.	3.6	12
36	Inversely Tuning the CO₂Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. Angewandte Chemie - International Edition, 2021, 60, 7602-7606.	7.2	81

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37	Inversely Tuning the CO₂Electroreduction and Hydrogen Evolution Activity on Metal Oxide via Heteroatom Doping. Angewandte Chemie, 2021, 133, 7680-7684.	1.6	15
38	Subâ€2 nm Thiophosphate Nanosheets with Heteroatom Doping for Enhanced Oxygen Electrocatalysis. Advanced Functional Materials, 2021, 31, 2100618.	7.8	133
39	Regulating the Catalytically Active Sites in Low-Cost and Earth-Abundant 3d Transition-Metal-Based Electrode Materials for High-Performance Zincâ€“Air Batteries. Energy & Fuels, 2021, 35, 6483-6503.	2.5	26
40	Micronanostructured Design of Dendriteâ€Free Zinc Anodes and Their Applications in Aqueous Zincâ€Based Rechargeable Batteries. Small Structures, 2021, 2, 2000128.	6.9	79
41	Spin State Tuning of the Octahedral Sites in Niâ€“Co-Based Spinel toward Highly Efficient Urea Oxidation Reaction. Journal of Physical Chemistry C, 2021, 125, 9190-9199.	1.5	25
42	Fabrication of the Ni-NiCl2 Composite Cathode Material for Fast-Response Thermal Batteries. Frontiers in Chemistry, 2021, 9, 679231.	1.8	15
43	A review of non-noble metal-based electrocatalysts for CO2 electroreduction. Rare Metals, 2021, 40, 3019.	3.6	74
44	Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zincâ€“Air Batteries. Advanced Materials, 2021, 33, e2006461.	11.1	63
45	Metal chalcogenides: An emerging material for electrocatalysis. APL Materials, 2021, 9, .	2.2	26
46	Dualâ€Sites Coordination Engineering of Single Atom Catalysts for Flexible Metalâ€“Air Batteries. Advanced Energy Materials, 2021, 11, 2101242.	10.2	247
47	Encapsulating Cobalt Nanoparticles in Interconnected Nâ€Doped Hollow Carbon Nanofibers with Enriched Coï£¿Nï£¿C Moiety for Enhanced Oxygen Electrocatalysis in Znâ€Air Batteries. Advanced Science, 2021, 8, e2101438.	5.6	104
48	Zincâ€Air Batteries: Mapping the Design of Electrolyte Materials for Electrically Rechargeable Zincâ€“Air Batteries (Adv. Mater. 31/2021). Advanced Materials, 2021, 33, 2170243.	11.1	3
49	Strategies for Optimizing the Photocatalytic Waterâ€Splitting Performance of Metalâ€“Organic Frameworkâ€Based Materials. Small Science, 2021, 1, 2100060.	5.8	31
50	A novel NiCl2-based cathode material for high-voltage thermal battery. Materials Letters, 2021, 301, 130272.	1.3	14
51	Controlled Synthesis of Niâ€Doped MoS₂ Hybrid Electrode for Synergistically Enhanced Waterâ€Splitting Process. Chemistry - A European Journal, 2020, 26, 4097-4103.	1.7	23
52	Enhanced hydrogen production from ammonia borane over CuNi alloy nanoparticles supported on TiO2(B)/anatase mixed-phase nanofibers with high specific surface area. Journal of Alloys and Compounds, 2020, 815, 152431.	2.8	33
53	Surface/interface engineering of noble-metals and transition metal-based compounds for electrocatalytic applications. Journal of Materials Science and Technology, 2020, 38, 221-236.	5.6	23
54	Powder metallurgy synthesis of porous Ni-Fe alloy for oxygen evolution reaction and overall water splitting. Journal of Materials Science and Technology, 2020, 37, 154-160.	5.6	23

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55	Battery Technologies for Grid-Level Large-Scale Electrical Energy Storage. Transactions of Tianjin University, 2020, 26, 92-103.	3.3	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.	7.2	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.	1.6	14
58	Low-temperature strategy toward Ni-NC@Ni core-shell nanostructure with Single-Ni sites for efficient CO2 electroreduction. Nano Energy, 2020, 77, 105010.	8.2	70
59	Flexible and Wearable Power Sources for Nextâ€Generation Wearable Electronics. Batteries and Supercaps, 2020, 3, 1262-1274.	2.4	53
60	Kirigami-Inspired Flexible and Stretchable Zincâ€“Air Battery Based on Metal-Coated Sponge Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 54833-54841.	4.0	30
61	Flexible and Wearable Power Sources for Nextâ€Generation Wearable Electronics. Batteries and Supercaps, 2020, 3, 1261-1261.	2.4	1
62	Facile High Throughput Wet-Chemical Synthesis Approach Using a Microfluidic-Based Composition and Temperature Controlling Platform. Frontiers in Chemistry, 2020, 8, 579828.	1.8	13
63	3D Foam Anode and Hydrogel Electrolyte for Highâ€Performance and Stable Flexible Zincâ€“Air Battery. ChemistrySelect, 2020, 5, 8305-8310.	0.7	15
64	Thermal Shock-Activated Spontaneous Growing of Nanosheets for Overall Water Splitting. Nano-Micro Letters, 2020, 12, 162.	14.4	59
65	Cobalt-Doped NiS₂ 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.	4.0	39
66	Dislocationâ€Strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. Advanced Materials, 2020, 32, e2006034.	11.1	148
67	Latticeâ€Strain Engineering of Homogeneous NiS_{0.5}Se_{0.5} Coreâ€“Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. Advanced Materials, 2020, 32, e2000231.	11.1	158
68	Sequential Electrodeposition of Bifunctional Catalytically Active Structures in MoO₃/Niâ€“NiO Composite Electrocatalysts for Selective Hydrogen and Oxygen Evolution. Advanced Materials, 2020, 32, e2003414.	11.1	206
69	Preparation of Ni3Fe2@NC/CC Integrated Electrode and Its Application in Zinc-Air Battery. Frontiers in Chemistry, 2020, 8, 575288.	1.8	4
70	Zincâ€“Air Batteries: A Rechargeable Znâ€“Air Battery with High Energy Efficiency and Long Life Enabled by a Highly Waterâ€Retentive Gel Electrolyte with Reaction Modifier (Adv. Mater. 22/2020). Advanced Materials, 2020, 32, 2070172.	11.1	5
71	Identifying Dense NiSe₂/CoSe₂ Heterointerfaces Coupled with Surface Highâ€Valence Bimetallic Sites for Synergistically Enhanced Oxygen Electrocatalysis. Advanced Materials, 2020, 32, e2000607.	11.1	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.	0.5	7

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73	A Solutionâ€based Method for Synthesizing Pyriteâ€type Ferrous Metal Sulfide Microspheres with Efficient OER Activity. Chemistry - an Asian Journal, 2020, 15, 2231-2238.	1.7	4
74	Tungsten disulfide-based nanomaterials for energy conversion and storage. Tungsten, 2020, 2, 109-133.	2.0	37
75	Acceptorâ€Doping Accelerated Charge Separation in Cu₂O Photocathode for Photoelectrochemical Water Splitting: Theoretical and Experimental Studies. Angewandte Chemie, 2020, 132, 18621-18625.	1.6	13
76	Acceptorâ€Doping Accelerated Charge Separation in Cu₂O Photocathode for Photoelectrochemical Water Splitting: Theoretical and Experimental Studies. Angewandte Chemie - International Edition, 2020, 59, 18463-18467.	7.2	82
77	Frontispiz: Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. Angewandte Chemie, 2020, 132, .	1.6	1
78	Decoupling electrolytes towards stable and high-energy rechargeable aqueous zincâ€“manganese dioxide batteries. Nature Energy, 2020, 5, 440-449.	19.8	430
79	Frontispiece: Tunable Periodically Ordered Mesoporosity in Palladium Membranes Enables Exceptional Enhancement of Intrinsic Electrocatalytic Activity for Formic Acid Oxidation. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0
80	Advanced Characterization Techniques for Identifying the Key Active Sites of Gasâ€Involved Electrocatalysts. Advanced Functional Materials, 2020, 30, 2001704.	7.8	19
81	Carbonâ€based cathode materials for rechargeable zincâ€air batteries: From current collectors to bifunctional integrated air electrodes. , 2020, 2, 370-386.		82
82	Spontaneous Synthesis of Silverâ€Nanoparticleâ€Decorated Transitionâ€Metal Hydroxides for Enhanced Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2020, 59, 7245-7250.	7.2	196
83	Spontaneous Synthesis of Silverâ€Nanoparticleâ€Decorated Transitionâ€Metal Hydroxides for Enhanced Oxygen Evolution Reaction. Angewandte Chemie, 2020, 132, 7312-7317.	1.6	12
84	Developing Indium-based Ternary Spinel Selenides for Efficient Solid Flexible Zn-Air Batteries and Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 8115-8123.	4.0	38
85	A Rechargeable Znâ€“Air Battery with High Energy Efficiency and Long Life Enabled by a Highly Waterâ€Retentive Gel Electrolyte with Reaction Modifier. Advanced Materials, 2020, 32, e1908127.	11.1	172
86	Electrocatalysis: Mesoporous Decoration of Freestanding Palladium Nanotube Arrays Boosts the Electrocatalysis Capabilities toward Formic Acid and Formate Oxidation (Adv. Energy Mater. 25/2019). Advanced Energy Materials, 2019, 9, 1970100.	10.2	1
87	Interface engineering of NiS2/CoS2 nanohybrids as bifunctional electrocatalysts for rechargeable solid state Zn-air battery. Journal of Power Sources, 2019, 437, 226893.	4.0	54
88	Long-Shelf-Life Polymer Electrolyte Based on Tetraethylammonium Hydroxide for Flexible Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2019, 11, 28909-28917.	4.0	81
89	Atomically Dispersed Binary Coâ€Ni Sites in Nitrogenâ€Doped Hollow Carbon Nanocubes for Reversible Oxygen Reduction and Evolution. Advanced Materials, 2019, 31, e1905622.	11.1	537
90	Utilizing solar energy to improve the oxygen evolution reaction kinetics in zincâ€“air battery. Nature Communications, 2019, 10, 4767.	5.8	199

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91	Investigation of the Environmental Stability of Poly(vinyl alcohol)â€“KOH Polymer Electrolytes for Flexible Zincâ€“Air Batteries. Frontiers in Chemistry, 2019, 7, 678.	1.8	32
92	In situ formation and superior lithium storage properties of tentacle-like ZnO@NC@CNTs composites. Nanoscale Advances, 2019, 1, 1200-1206.	2.2	16
93	Porous Zinc Anode Design for Zn-air Chemistry. Frontiers in Chemistry, 2019, 7, 656.	1.8	26
94	Enhanced antibacterial properties of biocompatible titanium via electrochemically deposited Ag/TiO₂ nanotubes and chitosanâ€“gelatinâ€“Agâ€“ZnO complex coating. RSC Advances, 2019, 9, 4521-4529.	1.7	19
95	Nanosheets assembled into nickel sulfide nanospheres with enriched Ni³⁺ active sites for efficient water-splitting and zincâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 23787-23793.	5.2	76
96	Mesoporous Decoration of Freestanding Palladium Nanotube Arrays Boosts the Electrocatalysis Capabilities toward Formic Acid and Formate Oxidation. Advanced Energy Materials, 2019, 9, 1900955.	10.2	72
97	Recent Progress in Advanced Characterization Methods for Siliconâ€Based Lithiumâ€Ion Batteries. Small Methods, 2019, 3, 1900158.	4.6	30
98	Charge redistribution of Co on cobalt (II) oxide surface for enhanced oxygen evolution electrocatalysis. Nano Energy, 2019, 61, 267-274.	8.2	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. ACS Applied Energy Materials, 2019, 2, 1588-1593.	2.5	15
100	Identifying the Activation of Bimetallic Sites in NiCo₂S₄@gâ€C₃N₄â€CNT Hybrid Electrocatalysts for Synergistic Oxygen Reduction and Evolution. Advanced Materials, 2019, 31, e1808281.	11.1	315
101	Pt embedded Ni3Se2@NiOOH core-shell dendrite-like nanoarrays on nickel as bifunctional electrocatalysts for overall water splitting. Science China Materials, 2019, 62, 1096-1104.	3.5	43
102	Generation of Nanoparticle, Atomicâ€Cluster, and Singleâ€Atom Cobalt Catalysts from Zeolitic Imidazole Frameworks by Spatial Isolation and Their Use in Zincâ€“Air Batteries. Angewandte Chemie, 2019, 131, 5413-5418.	1.6	106
103	Controllable synthesis of nickel sulfide nanocatalysts and their phase-dependent performance for overall water splitting. Nanoscale, 2019, 11, 5646-5654.	2.8	148
104	Generation of Nanoparticle, Atomicâ€Cluster, and Singleâ€Atom Cobalt Catalysts from Zeolitic Imidazole Frameworks by Spatial Isolation and Their Use in Zincâ€“Air Batteries. Angewandte Chemie - International Edition, 2019, 58, 5359-5364.	7.2	500
105	Bifunctional hydroxyl group over polymeric carbon nitride to achieve photocatalytic H₂O₂ production in ethanol aqueous solution with an apparent quantum yield of 52.8% at 420 nm. Chemical Communications, 2019, 55, 13279-13282.	2.2	37
106	Long-battery-life flexible zincâ€“air battery with near-neutral polymer electrolyte and nanoporous integrated air electrode. Journal of Materials Chemistry A, 2019, 7, 25449-25457.	5.2	61
107	Co₃O₄ nanoparticles supported on N-doped electrospinning carbon nanofibers as an efficient and bifunctional oxygen electrocatalyst for rechargeable Znâ€“air batteries. Inorganic Chemistry Frontiers, 2019, 6, 3554-3561.	3.0	29
108	Engineering the Surface Metal Active Sites of Nickel Cobalt Oxide Nanoplates toward Enhanced Oxygen Electrocatalysis for Znâ€“Air Battery. ACS Applied Materials & Interfaces, 2019, 11, 4915-4921.	4.0	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 zincâ€“air batteries. Nano Energy, 2019, 56, 454-462.	8.2	212
110	Enhanced light harvesting and electron-hole separation for efficient photocatalytic hydrogen evolution over Cu7S4-enwrapped Cu2O nanocubes. Applied Catalysis B: Environmental, 2019, 246, 202-210.	10.8	71
111	Ferroelectric polarization promoted bulk charge separation for highly efficient CO2 photoreduction of SrBi4Ti4O15. Nano Energy, 2019, 56, 840-850.	8.2	144
112	Size-controllable synthesis and high-performance formic acid oxidation of polycrystalline Pd nanoparticles. Rare Metals, 2019, 38, 115-121.	3.6	17
113	Solution process synthesis of morphology-controllable CoSe2 nanocrystals with efficient bifunctional catalytic activity. Ferroelectrics, 2018, 523, 126-133.	0.3	1
114	Nitrogen, Fluorine, and Boron Ternary Doped Carbon Fibers as Cathode Electrocatalysts for Zincâ€“Air Batteries. Small, 2018, 14, e1800737.	5.2	159
115	Controllable Synthesis of Ni_xSe (0.5 â‰¤ x â‰¤ 1) Nanocrystals for Efficient Rechargeable Zincâ€“Air Batteries and Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 13675-13684.	4.0	116
116	Metal Air Batteries: Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis (Adv. Energy Mater. 10/2018). Advanced Energy Materials, 2018, 8, 1870043.	10.2	10
117	One-step synthesis of the PdPt bimetallic nanodendrites with controllable composition for methanol oxidation reaction. Science China Materials, 2018, 61, 697-706.	3.5	37
118	Zincâ€“Air Batteries: Atomically Thin Mesoporous Co₃O₄ Layers Strongly Coupled with Nâ€rGO Nanosheets as Highâ€Performance Bifunctional Catalysts for 1D Knittable Zincâ€“Air Batteries (Adv. Mater. 4/2018). Advanced Materials, 2018, 30, 1870027.	11.1	4
119	In-situ multi-deposition process for cobalt-sulfide synthesis with efficient bifunctional catalytic activity. Ferroelectrics, 2018, 523, 119-125.	0.3	5
120	Atomic Layer Co₃O₄ Nanosheets: The Key to Knittable Znâ€“Air Batteries. Small, 2018, 14, e1702987.	5.2	68
121	Phase and composition controlled synthesis of cobalt sulfide hollow nanospheres for electrocatalytic water splitting. Nanoscale, 2018, 10, 4816-4824.	2.8	256
122	Engineering Catalytic Active Sites on Cobalt Oxide Surface for Enhanced Oxygen Electrocatalysis. Advanced Energy Materials, 2018, 8, 1702222.	10.2	243
123	Ternary doped porous carbon nanofibers with excellent ORR and OER performance for zincâ€“air batteries. Journal of Materials Chemistry A, 2018, 6, 10918-10925.	5.2	199
124	Electrochemical Oxidation of Chlorine-Doped Co(OH)₂ Nanosheet Arrays on Carbon Cloth as a Bifunctional Oxygen Electrode. ACS Applied Materials & Interfaces, 2018, 10, 796-805.	4.0	79
125	Pyrite-Type CoS2 Nanoparticles Supported on Nitrogen-Doped Graphene for Enhanced Water Splitting. Frontiers in Chemistry, 2018, 6, 569.	1.8	32
126	Air-stable phosphorus-doped molybdenum nitride for enhanced electrocatalytic hydrogen evolution. Communications Chemistry, 2018, 1, .	2.0	36

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127	Controllable synthesis of Co2P nanorods as high-efficiency bifunctional electrocatalyst for overall water splitting. Journal of Power Sources, 2018, 402, 345-352.	4.0	51
128	Thicknessâ€Dependent Facet Junction Control of Layered BiOIO₃ Single Crystals for Highly Efficient CO₂ Photoreduction. Advanced Functional Materials, 2018, 28, 1804284.	7.8	358
129	In Situ Fabrication of Heterostructure on Nickel Foam with Tuned Composition for Enhancing Waterâ€Splitting Performance. Small, 2018, 14, e1803666.	5.2	100
130	Zincâ€Air Batteries: Atomic Layer Co₃O₄ Nanosheets: The Key to Knittable Znâ€“Air Batteries (Small 43/2018). Small, 2018, 14, 1870200.	5.2	11
131	Finite-Element Analysis on Percolation Performance of Foam Zinc. ACS Omega, 2018, 3, 11018-11025.	1.6	2
132	Electrocatalysis: Ultrafine Pt Nanoparticleâ€Decorated Pyriteâ€Type CoS₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting (Adv. Energy Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	11	
133	Electronic and Defective Engineering of Electrospun CaMnO₃ Nanotubes for Enhanced Oxygen Electrocatalysis in Rechargeable Zincâ€“Air Batteries. Advanced Energy Materials, 2018, 8, 1800612.	10.2	234
134	Graphene Hybrids: Identifying the Key Role of Pyridinicâ€Nâ€“Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER (Adv. Mater. 23/2018). Advanced Materials, 2018, 30, 1870164.	11.1	13
135	Ultrafine Pt Nanoparticleâ€Decorated Pyriteâ€Type CoS₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting. Advanced Energy Materials, 2018, 8, 1800935.	10.2	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. ACS Applied Materials & Interfaces, 2018, 10, 30433-30440.	4.0	69
137	One-Step Fabrication and Localized Electrochemical Characterization of Continuous Al-Alloyed Intermetallic Surface Layer on Magnesium Alloy. Coatings, 2018, 8, 148.	1.2	9
138	Metalâ€“Air Batteries: From Static to Flow System. Advanced Energy Materials, 2018, 8, 1801396.	10.2	156
139	Identifying the Key Role of Pyridinicâ€Nâ€“Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER. Advanced Materials, 2018, 30, e1800005.	11.1	394
140	Isolated Platinum Atoms Stabilized by Amorphous Tungstenic Acid: Metalâ€“Support Interaction for Synergistic Oxygen Activation. Angewandte Chemie - International Edition, 2018, 57, 9351-9356.	7.2	80
141	Isolated Platinum Atoms Stabilized by Amorphous Tungstenic Acid: Metalâ€“Support Interaction for Synergistic Oxygen Activation. Angewandte Chemie, 2018, 130, 9495-9500.	1.6	7
142	Enhanced electrochemical performance of Na_{0.5}Ni_{0.25}Mn_{0.75}O₂ micro-sheets at 3.8 V for Na-ion batteries with nanosized-thin AlF₃ coating. Nanoscale, 2018, 10, 12625-12630.	2.8	24
143	Morphology Controllable Synthesis of NiO/NiFe2O4 Hetero-Structures for Ultrafast Lithium-Ion Battery. Frontiers in Chemistry, 2018, 6, 654.	1.8	14
144	Atomically Thin Mesoporous Co₃O₄ Layers Strongly Coupled with Nâ€rGO Nanosheets as Highâ€Performance Bifunctional Catalysts for 1D Knittable Zincâ€“Air Batteries. Advanced Materials, 2018, 30, 1703657.	11.1	302

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146	Ultrathin Co₃O₄ Layers with Large Contact Area on Carbon Fibers as Highâ€Performance Electrode for Flexible Zincâ€“Air Battery Integrated with Flexible Display. Advanced Energy Materials, 2017, 7, 1700779.	10.2	309
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