

# Pinxian Xi

## 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.

83  
papers

6,484  
citations

44  
h-index

80  
g-index

86  
ext. papers

8,341  
ext. citations

11.2  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
83	Atomic-level correlation between the electrochemical performance of an oxygen-evolving catalyst and the effects of CeO <sub>2</sub> functionalization. <i>Nano Research</i> , <b>2022</b> , 15, 2994-3000	10	3
82	Surface chlorine doped perovskite-type cobaltate lanthanum for water oxidation. <i>Chinese Journal of Catalysis</i> , <b>2022</b> , 43, 1485-1492	11.3	2
81	Tailoring Oxygen Reduction Reaction Pathway on Spinel Oxides via Surficial Geometrical-Site Occupation Modification Driven by Oxygen Evolution Reaction.. <i>Advanced Materials</i> , <b>2022</b> , e2202874	24	4
80	Recent Development of Oxygen Evolution Electrocatalysts in Acidic Environment. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006328	24	85
79	Activation Strategies of Perovskite-Type Structure for Applications in Oxygen-Related Electrocatalysts.. <i>Small Methods</i> , <b>2021</b> , 5, e2100012	12.8	4
78	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14236-14242	3.6	7
77	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14117-14123	16.4	44
76	In Situ Activated Co <sub>3</sub> Ni <sub>2</sub> O <sub>4</sub> as a Highly Active and Ultrastable Electrocatalyst for Hydrogen Generation. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8174-8182	13.1	13
75	Surface-Electronic-Structure Reconstruction of Perovskite via Double-Cation Gradient Etching for Superior Water Oxidation. <i>Nano Letters</i> , <b>2021</b> , 21, 8166-8174	11.5	5
74	A New Hexagonal Cobalt Nanosheet Catalyst for Selective CO Conversion to Ethanal. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 15335-15343	16.4	15
73	Uncovering the Promotion of CeO <sub>2</sub> /CoS Heterostructure with Specific Spatial Architectures on Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102593	24	27
72	Lattice site-dependent metal leaching in perovskites toward a honeycomb-like water oxidation catalyst. <i>Science Advances</i> , <b>2021</b> , 7, eabk1788	14.3	6
71	Optimized Metal Chalcogenides for Boosting Water Splitting. <i>Advanced Science</i> , <b>2020</b> , 7, 1903070	13.6	81
70	Construction and Application of Interfacial Inorganic Nanostructures. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 772-786	4.9	7
69	Engineering Lower Coordination Atoms onto NiO/Co <sub>3</sub> O <sub>4</sub> Heterointerfaces for Boosting Oxygen Evolution Reactions. <i>ACS Catalysis</i> , <b>2020</b> , 10, 12376-12384	13.1	95
68	Iridium Single Atoms Coupling with Oxygen Vacancies Boosts Oxygen Evolution Reaction in Acid Media. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18378-18386	16.4	128
67	NiCo O <sub>2</sub> -Based Nanosheets with Uniform 4 nm Mesopores for Excellent Zn-Air Battery Performance. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001651	24	39

66	Energy-level engineered hollow N-doped NiS <sub>1.03</sub> for Zn-Air batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 202-209	19.4	42
65	N <sup>+</sup> -ion irradiation engineering towards the efficient oxygen evolution reaction on NiO nanosheet arrays. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4729-4733	13	34
64	Electronic structure modulation of NiS <sub>2</sub> by transition metal doping for accelerating the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4971-4976	13	51
63	Interfacial Defect Engineering for Improved Portable Zinc-Air Batteries with a Broad Working Temperature. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9459-9463	16.4	98
62	Interfacial Defect Engineering for Improved Portable Zinc-Air Batteries with a Broad Working Temperature. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9559-9563	3.6	18
61	Cu and Co nanoparticle-Co-decorated N-doped graphene nanosheets: a high efficiency bifunctional electrocatalyst for rechargeable Zn-Air batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12851-12858	13	37
60	Transition Metal (Fe, Co and Ni) Carbide/Nitride (M <sub>2</sub> C/N) Nanocatalysts: Structure and Electrocatalytic Applications. <i>ChemCatChem</i> , <b>2019</b> , 11, 2780-2792	5.2	27
59	The Energy Level Regulation of CoMo Carbonate Hydroxide for the Enhanced Oxygen Evolution Reaction Activity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6161-6169	8.3	17
58	Significance of Engineering the Octahedral Units to Promote the Oxygen Evolution Reaction of Spinel Oxides. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902509	24	115
57	Atomic Arrangement in Metal-Doped NiS Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18676-18682	16.4	103
56	Atomic Arrangement in Metal-Doped NiS <sub>2</sub> Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 18849-18855	3.6	20
55	Atomic Insights of Iron Doping in Nickel Hydroxide Nanosheets for Enhanced Oxygen Catalysis to Boost Broad Temperature Workable Zinc-Air Batteries. <i>ChemCatChem</i> , <b>2019</b> , 11, 6002-6007	5.2	8
54	Controllable tuning of Fe-N nanosheets by Co substitution for enhanced oxygen evolution reaction. <i>Nano Energy</i> , <b>2019</b> , 57, 644-652	17.1	61
53	Synthesis of silk-like FeS <sub>2</sub> /NiS <sub>2</sub> hybrid nanocrystals with improved reversible oxygen catalytic performance in a Zn-air battery. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 43-51	11.3	22
52	Epitaxial Heterogeneous Interfaces on N-NiMoO <sub>4</sub> /NiS <sub>2</sub> Nanowires/Nanosheets to Boost Hydrogen and Oxygen Production for Overall Water Splitting. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805298	15.6	251
51	Zn-doped MoSe <sub>2</sub> nanosheets as high-performance electrocatalysts for hydrogen evolution reaction in acid media. <i>Electrochimica Acta</i> , <b>2019</b> , 296, 701-708	6.7	40
50	Bimetallic Nickel Cobalt Sulfide as Efficient Electrocatalyst for Zn-Air Battery and Water Splitting. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 2	19.5	119
49	Construction of surface lattice oxygen in metallic NiCuCoS <sub>1.97</sub> porous nanowire for wearable Zn-Air battery. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 34, 1-9	12	12

48	Dual-Native Vacancy Activated Basal Plane and Conductivity of MoSe with High-Efficiency Hydrogen Evolution Reaction. <i>Small</i> , <b>2018</b> , 14, e1704150	11	78
47	Accelerated Hydrogen Evolution Reaction in CoS <sub>2</sub> by Transition-Metal Doping. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 779-786	20.1	147
46	Ce-Doped NiFe-Layered Double Hydroxide Ultrathin Nanosheets/Nanocarbon Hierarchical Nanocomposite as an Efficient Oxygen Evolution Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 6336-6345	9.5	161
45	Self-Powered Water-Splitting Devices by Core-Shell NiFe@N-Graphite-Based Zn-Air Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706928	15.6	104
44	Synthesis of manganese phosphate hybrid nanoflowers by collagen-templated biomineralization.. <i>RSC Advances</i> , <b>2018</b> , 8, 2708-2713	3.7	10
43	MOF-Derived Hollow CoS Decorated with CeO Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8654-8658	16.4	239
42	Metallic CuCoS nanosheets of atomic thickness as efficient bifunctional electrocatalysts for portable, flexible Zn-air batteries. <i>Nanoscale</i> , <b>2018</b> , 10, 6581-6588	7.7	59
41	CoFe <sub>2</sub> O <sub>4</sub> nanoparticles as efficient bifunctional catalysts applied in Zn-air battery. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 590-600	2.5	12
40	Controlled fabrication of collagen-zinc phosphate hierarchical hybrid nanoflowers via a biomineralization process. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 12824-12829	3.6	4
39	Transition-metal-doped NiSe <sub>2</sub> nanosheets towards efficient hydrogen evolution reactions. <i>Nano Research</i> , <b>2018</b> , 11, 6051-6061	10	49
38	MOF-Derived Hollow CoS Decorated with CeO <sub>x</sub> Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8790-8794	3.6	49
37	Nanocomposites CoPt-x/Diatomite-C as oxygen reversible electrocatalysts for zinc-air batteries: Diatomite boosted the catalytic activity and durability. <i>Electrochimica Acta</i> , <b>2018</b> , 284, 119-127	6.7	20
36	Activation of defective nickel molybdate nanowires for enhanced alkaline electrochemical hydrogen evolution. <i>Nanoscale</i> , <b>2018</b> , 10, 16539-16546	7.7	21
35	Ar <sup>2+</sup> Beam Irradiation-Induced Multivacancies in MoSe <sub>2</sub> Nanosheet for Enhanced Electrochemical Hydrogen Evolution. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2167-2172	20.1	49
34	Activation of the MoSe <sub>2</sub> basal plane and Se-edge by B doping for enhanced hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 510-515	13	79
33	Active basal plane catalytic activity and conductivity in Zn doped MoS <sub>2</sub> nanosheets for efficient hydrogen evolution. <i>Electrochimica Acta</i> , <b>2018</b> , 260, 24-30	6.7	47
32	Heterostructure-Promoted Oxygen Electrocatalysis Enables Rechargeable Zinc-Air Battery with Neutral Aqueous Electrolyte. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17624-17631	16.4	176
31	FeS /CoS Interface Nanosheets as Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small</i> , <b>2018</b> , 14, e1801070	11	218

30	P Dopants Triggered New Basal Plane Active Sites and Enlarged Interlayer Spacing in MoS <sub>2</sub> Nanosheets toward Electrocatalytic Hydrogen Evolution. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 745-752	20.1	230
29	NiO/CoN Porous Nanowires as Efficient Bifunctional Catalysts for Zn-Air Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 2275-2283	16.7	355
28	Activating and Optimizing Activity of CoS <sub>2</sub> for Hydrogen Evolution Reaction through the Synergic Effect of N Dopants and S Vacancies. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1022-1028	20.1	165
27	In Situ Growth of Ceria on Cerium-Nitrogen-Carbon as Promoter for Oxygen Evolution Reaction. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700272	4.6	13
26	Effective Construction of High-quality Iron Oxy-hydroxides and Co-doped Iron Oxy-hydroxides Nanostructures: Towards the Promising Oxygen Evolution Reaction Application. <i>Scientific Reports</i> , <b>2017</b> , 7, 43590	4.9	42
25	Hybrids of Cobalt/Iron Phosphides Derived from Bimetal-Organic Frameworks as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 362-370	9.5	171
24	Oxygen Vacancies Dominated NiS /CoS Interface Porous Nanowires for Portable Zn-Air Batteries Driven Water Splitting Devices. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704681	24	400
23	Atomic-Level Coupled Interfaces and Lattice Distortion on CuS/NiS <sub>2</sub> Nanocrystals Boost Oxygen Catalysis for Flexible Zn-Air Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703779	15.6	154
22	Copper dopants improved the hydrogen evolution activity of earth-abundant cobalt pyrite catalysts by activating the electrocatalytically inert sulfur sites. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17601-17608	17.3	44
21	High-index faceted CuFeS nanosheets with enhanced behavior for boosting hydrogen evolution reaction. <i>Nanoscale</i> , <b>2017</b> , 9, 9230-9237	7.7	48
20	Ni-C-N Nanosheets as Catalyst for Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 14546-14549	16.4	336
19	Cu <sub>2</sub> O/CuO@rGO heterostructure derived from metal-organic-frameworks as an advanced electrocatalyst for non-enzymatic electrochemical H <sub>2</sub> O <sub>2</sub> sensor. <i>RSC Advances</i> , <b>2016</b> , 6, 103116-103123	3.7	17
18	Self-supported nanoporous NiCo <sub>2</sub> O <sub>4</sub> nanowires with cobalt-nickel layered oxide nanosheets for overall water splitting. <i>Nanoscale</i> , <b>2016</b> , 8, 1390-400	7.7	147
17	Hierarchical ultrathin Mo(SxSe <sub>1-x</sub> ) <sub>2</sub> nanosheets with tunable ferromagnetism and efficient hydrogen evolution reaction activity: towards defect site effect. <i>CrystEngComm</i> , <b>2015</b> , 17, 6420-6425	3.3	16
16	Ultrafast Hole Trapping and Relaxation Dynamics in p-Type CuS Nanodisks. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2671-5	6.4	67
15	Phase transformation fabrication of a Cu <sub>2</sub> S nanoplate as an efficient catalyst for water oxidation with glycine. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 3281-9	5.1	87
14	A Self-Standing High-Performance Hydrogen Evolution Electrode with Nanostructured NiCo <sub>2</sub> O <sub>4</sub> /CuS Heterostructures. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6814-6822	15.6	173
13	MC3T3-E1 preosteoblast cell-mediated mineralization of hydroxyapatite by poly-dopamine-functionalized graphene oxide. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2015</b> , 30, 289-301	2	28

12	High-Quality Copper Sulfide Nanocrystals with Diverse Shapes and Their Catalysis for Electrochemical Reduction of H <sub>2</sub> O <sub>2</sub> . <i>Particle and Particle Systems Characterization</i> , <b>2015</b> , 32, 536-541	3.1	18
11	A coumarin-derived fluorescent chemosensor for selectively detecting Cu <sup>2+</sup> : synthesis, DFT calculations and cell imaging applications. <i>Talanta</i> , <b>2014</b> , 124, 139-45	6.2	27
10	Facile synthesis of Pd-based bimetallic nanocrystals and their application as catalysts for methanol oxidation reaction. <i>Nanoscale</i> , <b>2013</b> , 5, 6124-30	7.7	52
9	A one-step method to produce graphene/Fe <sub>3</sub> O <sub>4</sub> composites and their excellent catalytic activities for three-component coupling of aldehyde, alkyne and amine. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 651-656	13	78
8	An electrochemical biosensor for ascorbic acid based on carbon-supported PdNi nanoparticles. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 44, 183-90	11.8	83
7	A facile chemical method to produce superparamagnetic graphene oxide/Fe <sub>3</sub> O <sub>4</sub> hybrid composite and its application in the removal of dyes from aqueous solution. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1033-1039		308
6	Surfactant free RGO/Pd nanocomposites as highly active heterogeneous catalysts for the hydrolytic dehydrogenation of ammonia borane for chemical hydrogen storage. <i>Nanoscale</i> , <b>2012</b> , 4, 5597-601	7.7	177
5	Fluorescent graphene oxide composites synthesis and its biocompatibility study. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9308		49
4	A turn-on chemosensor for Hg <sup>2+</sup> in aqueous media and its application in "MCT" imaging in living cells. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6382-4	4.3	19
3	Supramolecular architecture built of Co(II) and a tripodal ligand containing 1-D water tapes with (H <sub>2</sub> O) <sub>16</sub> cluster units. <i>Journal of Coordination Chemistry</i> , <b>2011</b> , 64, 1885-1893	1.6	8
2	Progress in In Situ Research on Dynamic Surface Reconstruction of Electrocatalysts for Oxygen Evolution Reaction. <i>Advanced Energy and Sustainability Research</i> , 2200036	1.6	3
1	Boosting the Electrocatalytic Oxygen Evolution of Perovskite LaCo <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> by the Construction of Yolk-Shell Nanostructures and Electronic Modulation. <i>Small</i> , 2201131	11	3