

# Pinxian Xi

## List of Publications by Year in descending order

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41339

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#	ARTICLE	IF	CITATIONS
1	Oxygen Vacancies Dominated Ni <sub>2</sub> /CoS <sub>2</sub> Interface Porous Nanowires for Portable Zn-Air Batteries Driven Water Splitting Devices. <i>Advanced Materials</i> , 2017, 29, 1704681.	21.0	533
2	NiO/CoN Porous Nanowires as Efficient Bifunctional Catalysts for Zn-Air Batteries. <i>ACS Nano</i> , 2017, 11, 2275-2283.	14.6	456
3	Ni-C-N Nanosheets as Catalyst for Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2016, 138, 14546-14549.	13.7	424
4	Recent Development of Oxygen Evolution Electrocatalysts in Acidic Environment. <i>Advanced Materials</i> , 2021, 33, e2006328.	21.0	392
5	Epitaxial Heterogeneous Interfaces on NiNiMoO <sub>4</sub> /NiS <sub>2</sub> Nanowires/Nanosheets to Boost Hydrogen and Oxygen Production for Overall Water Splitting. <i>Advanced Functional Materials</i> , 2019, 29, 1805298.	14.9	378
6	MOF-Derived Hollow CoS Decorated with CeO <sub>x</sub> Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8654-8658.	13.8	369
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> , 2012, 22, 1033-1039.	6.7	347
8	Iridium Single Atoms Coupling with Oxygen Vacancies Boosts Oxygen Evolution Reaction in Acid Media. <i>Journal of the American Chemical Society</i> , 2020, 142, 18378-18386.	13.7	334
9	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> , 2017, 2, 745-752.	17.4	304
10	Ce-Doped NiFe-Layered Double Hydroxide Ultrathin Nanosheets/Nanocarbon Hierarchical Nanocomposite as an Efficient Oxygen Evolution Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6336-6345.	8.0	276
11	FeS <sub>2</sub> /CoS <sub>2</sub> Interface Nanosheets as Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2018, 14, e1801070.	10.0	273
12	Heterostructure-Promoted Oxygen Electrocatalysis Enables Rechargeable Zinc-Air Battery with Neutral Aqueous Electrolyte. <i>Journal of the American Chemical Society</i> , 2018, 140, 17624-17631.	13.7	258
13	Accelerated Hydrogen Evolution Reaction in CoS <sub>2</sub> by Transition-Metal Doping. <i>ACS Energy Letters</i> , 2018, 3, 779-786.	17.4	231
14	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> , 2017, 2, 1022-1028.	17.4	229
15	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> , 2017, 9, 362-370.	8.0	223
16	Engineering Lower Coordination Atoms onto NiO/Co <sub>3</sub> O <sub>4</sub> Heterointerfaces for Boosting Oxygen Evolution Reactions. <i>ACS Catalysis</i> , 2020, 10, 12376-12384.	11.2	223
17	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> , 2015, 25, 6814-6822.	14.9	215
18	Surfactant free RGO/Pd nanocomposites as highly active heterogeneous catalysts for the hydrolytic dehydrogenation of ammonia borane for chemical hydrogen storage. <i>Nanoscale</i> , 2012, 4, 5597.	5.6	202

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19	Significance of Engineering the Octahedral Units to Promote the Oxygen Evolution Reaction of Spinel Oxides. <i>Advanced Materials</i> , 2019, 31, e1902509.	21.0	201
20	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> , 2017, 27, 1703779.	14.9	200
21	Optimized Metal Chalcogenides for Boosting Water Splitting. <i>Advanced Science</i> , 2020, 7, 1903070.	11.2	190
22	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> , 2016, 8, 1390-1400.	5.6	180
23	Bimetallic Nickel Cobalt Sulfide as Efficient Electrocatalyst for Zn-Air Battery and Water Splitting. <i>Nano-Micro Letters</i> , 2019, 11, 2.	27.0	179
24	Atomic Arrangement in Metal-Doped NiS <sub>2</sub> Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18676-18682.	13.8	174
25	Self-Powered Water-Splitting Devices by Core-Shell NiFe@N-Graphite-Based Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1706928.	14.9	155
26	Interfacial Defect Engineering for Improved Portable Zinc-Air Batteries with a Broad Working Temperature. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9459-9463.	13.8	139
27	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14117-14123.	13.8	129
28	NiCo <sub>2</sub> O <sub>4</sub> -Based Nanosheets with Uniform 4 nm Mesopores for Excellent Zn-Air Battery Performance. <i>Advanced Materials</i> , 2020, 32, e2001651.	21.0	120
29	Uncovering the Promotion of CeO <sub>2</sub> /CoS <sub>1.97</sub> Heterostructure with Specific Spatial Architectures on Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2021, 33, e2102593.	21.0	118
30	Dual-Native Vacancy Activated Basal Plane and Conductivity of MoSe <sub>2</sub> with High-Efficiency Hydrogen Evolution Reaction. <i>Small</i> , 2018, 14, e1704150.	10.0	114
31	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> , 2018, 6, 510-515.	10.3	110
32	An electrochemical biosensor for ascorbic acid based on carbon-supported PdNi nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 44, 183-190.	10.1	102
33	Phase Transformation Fabrication of a Cu <sub>2</sub> S Nanoplate as an Efficient Catalyst for Water Oxidation with Glycine. <i>Inorganic Chemistry</i> , 2015, 54, 3281-3289.	4.0	102
34	Ultrafast Hole Trapping and Relaxation Dynamics in p-Type CuS Nanodisks. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2671-2675.	4.6	97
35	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> , 2019, 7, 4971-4976.	10.3	93
36	Controllable tuning of Fe-N nanosheets by Co substitution for enhanced oxygen evolution reaction. <i>Nano Energy</i> , 2019, 57, 644-652.	16.0	90

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37	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> , 2013, 1, 651-656.	10.3	85
38	MOF-Derived Hollow CoS Decorated with CeO <sub>x</sub> Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. <i>Angewandte Chemie</i> , 2018, 130, 8790-8794.	2.0	84
39	Ar <sup>2+</sup> Beam Irradiation-Induced Multivacancies in MoSe <sub>2</sub> Nanosheet for Enhanced Electrochemical Hydrogen Evolution. <i>ACS Energy Letters</i> , 2018, 3, 2167-2172.	17.4	73
40	Transition-metal-doped NiSe <sub>2</sub> nanosheets towards efficient hydrogen evolution reactions. <i>Nano Research</i> , 2018, 11, 6051-6061.	10.4	72
41	High-index faceted CuFeS <sub>2</sub> nanosheets with enhanced behavior for boosting hydrogen evolution reaction. <i>Nanoscale</i> , 2017, 9, 9230-9237.	5.6	70
42	Zn-doped MoSe <sub>2</sub> nanosheets as high-performance electrocatalysts for hydrogen evolution reaction in acid media. <i>Electrochimica Acta</i> , 2019, 296, 701-708.	5.2	70
43	Metallic CuCo <sub>2</sub> S <sub>4</sub> nanosheets of atomic thickness as efficient bifunctional electrocatalysts for portable, flexible Zn-air batteries. <i>Nanoscale</i> , 2018, 10, 6581-6588.	5.6	69
44	A New Hexagonal Cobalt Nanosheet Catalyst for Selective CO <sub>2</sub> Conversion to Ethanol. <i>Journal of the American Chemical Society</i> , 2021, 143, 15335-15343.	13.7	64
45	Energy-level engineered hollow N-doped NiS <sub>1.03</sub> for Zn-Air batteries. <i>Energy Storage Materials</i> , 2020, 25, 202-209.	18.0	62
46	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> , 2017, 5, 17601-17608.	10.3	61
47	Facile synthesis of Pd-based bimetallic nanocrystals and their application as catalysts for methanol oxidation reaction. <i>Nanoscale</i> , 2013, 5, 6124.	5.6	60
48	Active basal plane catalytic activity and conductivity in Zn doped MoS <sub>2</sub> nanosheets for efficient hydrogen evolution. <i>Electrochimica Acta</i> , 2018, 260, 24-30.	5.2	58
49	Fluorescent graphene oxide composites synthesis and its biocompatibility study. <i>Journal of Materials Chemistry</i> , 2012, 22, 9308.	6.7	54
50	Tailoring Oxygen Reduction Reaction Pathway on Spinel Oxides via Surficial Geometrical Site Occupation Modification Driven by the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2022, 34, e2202874.	21.0	52
51	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> , 2017, 7, 43590.	3.3	51
52	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> , 2019, 7, 12851-12858.	10.3	50
53	N <sup>+</sup> -ion irradiation engineering towards the efficient oxygen evolution reaction on NiO nanosheet arrays. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4729-4733.	10.3	48
54	Transition Metal (Fe, Co and Ni) Carbide-Nitride (M <sub>2</sub> C <sub>3</sub> N) Nanocatalysts: Structure and Electrocatalytic Applications. <i>ChemCatChem</i> , 2019, 11, 2780-2792.	3.7	46

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55	<i>In Situ</i> Activated Co <sub>3</sub> Ni <sub>x</sub> O <sub>4</sub> as a Highly Active and Ultrastable Electrocatalyst for Hydrogen Generation. <i>ACS Catalysis</i> , 2021, 11, 8174-8182.	11.2	43
56	MC3T3-E1 preosteoblast cell-mediated mineralization of hydroxyapatite by poly-dopamine-functionalized graphene oxide. <i>Journal of Bioactive and Compatible Polymers</i> , 2015, 30, 289-301.	2.1	41
57	Lattice site-dependent metal leaching in perovskites toward a honeycomb-like water oxidation catalyst. <i>Science Advances</i> , 2021, 7, eabk1788.	10.3	41
58	Atomic Arrangement in Metal-Doped Ni <sub>2</sub> Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie</i> , 2019, 131, 18849-18855.	2.0	38
59	The Energy Level Regulation of CoMo Carbonate Hydroxide for the Enhanced Oxygen Evolution Reaction Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6161-6169.	6.7	35
60	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> , 2019, 40, 43-51.	14.0	34
61	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> , 2022, 18, .	10.0	31
62	A coumarin-derived fluorescent chemosensor for selectively detecting Cu <sup>2+</sup> : Synthesis, DFT calculations and cell imaging applications. <i>Talanta</i> , 2014, 124, 139-145.	5.5	29
63	Activation of defective nickel molybdate nanowires for enhanced alkaline electrochemical hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 16539-16546.	5.6	29
64	Activation Strategies of Perovskite-Type Structure for Applications in Oxygen-Related Electrocatalysts. <i>Small Methods</i> , 2021, 5, e2100012.	8.6	29
65	Surface-Electronic-Structure Reconstruction of Perovskite via Double-Cation Gradient Etching for Superior Water Oxidation. <i>Nano Letters</i> , 2021, 21, 8166-8174.	9.1	29
66	Ruthenium-modified porous NiCo <sub>2</sub> O <sub>4</sub> nanosheets boost overall water splitting in alkaline solution. <i>Chinese Chemical Letters</i> , 2022, 33, 4930-4935.	9.0	29
67	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. <i>Angewandte Chemie</i> , 2021, 133, 14236-14242.	2.0	27
68	Controlling the Cation Exsolution of Perovskite to Customize Heterostructure Active Site for Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 25638-25647.	8.0	26
69	Nanocomposites CoPt-x/Diatomite-C as oxygen reversible electrocatalysts for zinc-air batteries: Diatomite boosted the catalytic activity and durability. <i>Electrochimica Acta</i> , 2018, 284, 119-127.	5.2	25
70	Hierarchical ultrathin Mo(S <sub>x</sub> Se <sub>1-x</sub> ) <sub>2</sub> nanosheets with tunable ferromagnetism and efficient hydrogen evolution reaction activity: towards defect site effect. <i>CrystEngComm</i> , 2015, 17, 6420-6425.	2.6	23
71	Interfacial Defect Engineering for Improved Portable Zinc-Air Batteries with a Broad Working Temperature. <i>Angewandte Chemie</i> , 2019, 131, 9559-9563.	2.0	23
72	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> , 2015, 32, 536-541.	2.3	20

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73	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. RSC Advances, 2016, 6, 103116-103123.	3.6	20
74	A turn-on chemosensor for Hg <sup>2+</sup> in aqueous media and its application in MCT-imaging in living cells. Dalton Transactions, 2011, 40, 6382.	3.3	19
75	CoFe <sub>2</sub> O <sub>4</sub> nanoparticles as efficient bifunctional catalysts applied in Zn-air battery. Journal of Materials Research, 2018, 33, 590-600.	2.6	18
76	In Situ Growth of Ceria on Cerium-Nitrogen-Carbon as Promoter for Oxygen Evolution Reaction. Advanced Materials Interfaces, 2017, 4, 1700272.	3.7	17
77	Synthesis of manganese phosphate hybrid nanoflowers by collagen-templated biomineralization. RSC Advances, 2018, 8, 2708-2713.	3.6	17
78	Atomic Insights of Iron Doping in Nickel Hydroxide Nanosheets for Enhanced Oxygen Catalysis to Boost Broad Temperature Workable Zinc-Air Batteries. ChemCatChem, 2019, 11, 6002-6007.	3.7	17
79	Surface chlorine doped perovskite-type cobaltate lanthanum for water oxidation. Chinese Journal of Catalysis, 2022, 43, 1485-1492.	14.0	16
80	Construction of surface lattice oxygen in metallic Ni <sub>1.97</sub> CuCoS porous nanowire for wearable Zn-air battery. Journal of Energy Chemistry, 2019, 34, 1-9.	12.9	15
81	Construction and Application of Interfacial Inorganic Nanostructures. Chinese Journal of Chemistry, 2020, 38, 772-786.	4.9	13
82	Atomic-level correlation between the electrochemical performance of an oxygen-evolving catalyst and the effects of CeO <sub>2</sub> functionalization. Nano Research, 2022, 15, 2994-3000.	10.4	13
83	Progress in In Situ Research on Dynamic Surface Reconstruction of Electrocatalysts for Oxygen Evolution Reaction. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	12
84	Electronic engineering of amorphous Fe-Co-S sites in hetero-nanoframes for oxygen evolution and flexible Al-air batteries. Journal of Materials Chemistry A, 2022, 10, 19757-19768.	10.3	11
85	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. Journal of Coordination Chemistry, 2011, 64, 1885-1893.	2.2	9
86	Controlled fabrication of collagen-zinc phosphate hierarchical hybrid nanoflowers via a biomineralization process. New Journal of Chemistry, 2018, 42, 12824-12829.	2.8	6