Pinxian Xi

List of Publications by Citations

83	6,484	44	80
papers	citations	h-index	g-index
86	8,341	11.2	6.26
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
83	Oxygen Vacancies Dominated NiS /CoS Interface Porous Nanowires for Portable Zn-Air Batteries Driven Water Splitting Devices. *Advanced Materials*, **2017**, 29, 1704681	24	400
82	NiO/CoN Porous Nanowires as Efficient Bifunctional Catalysts for Zn-Air Batteries. *ACS Nano*, **2017**, 11, 2275-2283	16.7	355
81	Ni-C-N Nanosheets as Catalyst for Hydrogen Evolution Reaction. *Journal of the American Chemical Society*, **2016**, 138, 14546-14549	16.4	336
80	A facile chemical method to produce superparamagnetic graphene oxide–Fe3O4 hybrid composite and its application in the removal of dyes from aqueous solution. *Journal of Materials Chemistry*, **2012**, 22, 1033-1039		308
79	Epitaxial Heterogeneous Interfaces on N-NiMoO4/NiS2 Nanowires/Nanosheets to Boost Hydrogen and Oxygen Production for Overall Water Splitting. *Advanced Functional Materials*, **2019**, 29, 1805298	15.6	251
78	MOF-Derived Hollow CoS Decorated with CeO Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. *Angewandte Chemie - International Edition*, **2018**, 57, 8654-8658	16.4	239
77	P Dopants Triggered New Basal Plane Active Sites and Enlarged Interlayer Spacing in MoS2 Nanosheets toward Electrocatalytic Hydrogen Evolution. *ACS Energy Letters*, **2017**, 2, 745-752	20.1	230
76	FeS /CoS Interface Nanosheets as Efficient Bifunctional Electrocatalyst for Overall Water Splitting. *Small*, **2018**, 14, e1801070	11	218
75	Surfactant free RGO/Pd nanocomposites as highly active heterogeneous catalysts for the hydrolytic dehydrogenation of ammonia borane for chemical hydrogen storage. *Nanoscale*, **2012**, 4, 5597-601	7.7	177
74	Heterostructure-Promoted Oxygen Electrocatalysis Enables Rechargeable Zinc-Air Battery with Neutral Aqueous Electrolyte. *Journal of the American Chemical Society*, **2018**, 140, 17624-17631	16.4	176
73	A Self-Standing High-Performance Hydrogen Evolution Electrode with Nanostructured NiCo2O4/CuS Heterostructures. *Advanced Functional Materials*, **2015**, 25, 6814-6822	15.6	173
72	Hybrids of Cobalt/Iron Phosphides Derived from Bimetal-Organic Frameworks as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 362-370	9.5	171
71	Activating and Optimizing Activity of CoS2 for Hydrogen Evolution Reaction through the Synergic Effect of N Dopants and S Vacancies. *ACS Energy Letters*, **2017**, 2, 1022-1028	20.1	165
70	Ce-Doped NiFe-Layered Double Hydroxide Ultrathin Nanosheets/Nanocarbon Hierarchical Nanocomposite as an Efficient Oxygen Evolution Catalyst. *ACS Applied Materials & Interfaces*, **2018**, 10, 6336-6345	9.5	161
69	Atomic-Level Coupled Interfaces and Lattice Distortion on CuS/NiS2 Nanocrystals Boost Oxygen Catalysis for Flexible Zn-Air Batteries. *Advanced Functional Materials*, **2017**, 27, 1703779	15.6	154
68	Accelerated Hydrogen Evolution Reaction in CoS2 by Transition-Metal Doping. *ACS Energy Letters*, **2018**, 3, 779-786	20.1	147
67	Self-supported nanoporous NiCo2O4 nanowires with cobalt-nickel layered oxide nanosheets for overall water splitting. *Nanoscale*, **2016**, 8, 1390-400	7.7	147

66	Iridium Single Atoms Coupling with Oxygen Vacancies Boosts Oxygen Evolution Reaction in Acid Media. *Journal of the American Chemical Society*, **2020**, 142, 18378-18386	16.4	128
65	Bimetallic Nickel Cobalt Sulfide as Efficient Electrocatalyst for Zn-Air Battery and Water Splitting. *Nano-Micro Letters*, **2019**, 11, 2	19.5	119
64	Significance of Engineering the Octahedral Units to Promote the Oxygen Evolution Reaction of Spinel Oxides. *Advanced Materials*, **2019**, 31, e1902509	24	115
63	Self-Powered Water-Splitting Devices by Core–Shell NiFe@N-Graphite-Based Zn–Air Batteries. *Advanced Functional Materials*, **2018**, 28, 1706928	15.6	104
62	Atomic Arrangement in Metal-Doped NiS Boosts the Hydrogen Evolution Reaction in Alkaline Media. *Angewandte Chemie - International Edition*, **2019**, 58, 18676-18682	16.4	103
61	Interfacial Defect Engineering for Improved Portable Zinc-Air Batteries with a Broad Working Temperature. *Angewandte Chemie - International Edition*, **2019**, 58, 9459-9463	16.4	98
60	Engineering Lower Coordination Atoms onto NiO/Co3O4 Heterointerfaces for Boosting Oxygen Evolution Reactions. *ACS Catalysis*, **2020**, 10, 12376-12384	13.1	95
59	Phase transformation fabrication of a Cu2S nanoplate as an efficient catalyst for water oxidation with glycine. *Inorganic Chemistry*, **2015**, 54, 3281-9	5.1	87
58	Recent Development of Oxygen Evolution Electrocatalysts in Acidic Environment. *Advanced Materials*, **2021**, 33, e2006328	24	85
57	An electrochemical biosensor for ascorbic acid based on carbon-supported PdNi nanoparticles. *Biosensors and Bioelectronics*, **2013**, 44, 183-90	11.8	83
56	Optimized Metal Chalcogenides for Boosting Water Splitting. *Advanced Science*, **2020**, 7, 1903070	13.6	81
55	Activation of the MoSe2 basal plane and Se-edge by B doping for enhanced hydrogen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 510-515	13	79
54	Dual-Native Vacancy Activated Basal Plane and Conductivity of MoSe with High-Efficiency Hydrogen Evolution Reaction. *Small*, **2018**, 14, e1704150	11	78
53	A one-step method to produce graphene–Fe3O4 composites and their excellent catalytic activities for three-component coupling of aldehyde, alkyne and amine. *Journal of Materials Chemistry A*, **2013**, 1, 651-656	13	78
52	Ultrafast Hole Trapping and Relaxation Dynamics in p-Type CuS Nanodisks. *Journal of Physical Chemistry Letters*, **2015**, 6, 2671-5	6.4	67
51	Controllable tuning of Fe-N nanosheets by Co substitution for enhanced oxygen evolution reaction. *Nano Energy*, **2019**, 57, 644-652	17.1	61
50	Metallic CuCoS nanosheets of atomic thickness as efficient bifunctional electrocatalysts for portable, flexible Zn-air batteries. *Nanoscale*, **2018**, 10, 6581-6588	7.7	59
49	Facile synthesis of Pd-based bimetallic nanocrystals and their application as catalysts for methanol oxidation reaction. *Nanoscale*, **2013**, 5, 6124-30	7.7	52

48	Electronic structure modulation of NiS2 by transition metal doping for accelerating the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 4971-4976	13	51
47	Transition-metal-doped NiSe2 nanosheets towards efficient hydrogen evolution reactions. *Nano Research*, **2018**, 11, 6051-6061	10	49
46	MOF-Derived Hollow CoS Decorated with CeOx Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. *Angewandte Chemie*, **2018**, 130, 8790-8794	3.6	49
45	Ar2+ Beam Irradiation-Induced Multivancancies in MoSe2 Nanosheet for Enhanced Electrochemical Hydrogen Evolution. *ACS Energy Letters*, **2018**, 3, 2167-2172	20.1	49
44	Fluorescent graphene oxide composites synthesis and its biocompatibility study. *Journal of Materials Chemistry*, **2012**, 22, 9308		49
43	High-index faceted CuFeS nanosheets with enhanced behavior for boosting hydrogen evolution reaction. *Nanoscale*, **2017**, 9, 9230-9237	7.7	48
42	Active basal plane catalytic activity and conductivity in Zn doped MoS2 nanosheets for efficient hydrogen evolution. *Electrochimica Acta*, **2018**, 260, 24-30	6.7	47
41	Copper dopants improved the hydrogen evolution activity of earth-abundant cobalt pyrite catalysts by activating the electrocatalytically inert sulfur sites. *Journal of Materials Chemistry A*, **2017**, 5, 17601-17608	13	44
40	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. *Angewandte Chemie - International Edition*, **2021**, 60, 14117-14123	16.4	44
39	Effective Construction of High-quality Iron Oxy-hydroxides and Co-doped Iron Oxy-hydroxides Nanostructures: Towards the Promising Oxygen Evolution Reaction Application. *Scientific Reports*, **2017**, 7, 43590	4.9	42
38	Energy-level engineered hollow N-doped NiS1.03 for Zn–Air batteries. *Energy Storage Materials*, **2020**, 25, 202-209	19.4	42
37	Zn-doped MoSe2 nanosheets as high-performance electrocatalysts for hydrogen evolution reaction in acid media. *Electrochimica Acta*, **2019**, 296, 701-708	6.7	40
36	NiCo O -Based Nanosheets with Uniform 4 nm Mesopores for Excellent Zn-Air Battery Performance. *Advanced Materials*, **2020**, 32, e2001651	24	39
35	Cu and Co nanoparticle-Co-decorated N-doped graphene nanosheets: a high efficiency bifunctional electrocatalyst for rechargeable Zn–air batteries. *Journal of Materials Chemistry A*, **2019**, 7, 12851-12858	13	37
34	N+-ion irradiation engineering towards the efficient oxygen evolution reaction on NiO nanosheet arrays. *Journal of Materials Chemistry A*, **2019**, 7, 4729-4733	13	34
33	MC3T3-E1 preosteoblast cell-mediated mineralization of hydroxyapatite by poly-dopamine-functionalized graphene oxide. *Journal of Bioactive and Compatible Polymers*, **2015**, 30, 289-301	2	28
32	Transition Metal (Fe, Co and Ni) Carbide Nitride (M CN) Nanocatalysts: Structure and Electrocatalytic Applications. *ChemCatChem*, **2019**, 11, 2780-2792	5.2	27
31	A coumarin-derived fluorescent chemosensor for selectively detecting Cu+: synthesis, DFT calculations and cell imaging applications. *Talanta*, **2014**, 124, 139-45	6.2	27

30	Uncovering the Promotion of CeO /CoS Heterostructure with Specific Spatial Architectures on Oxygen Evolution Reaction. *Advanced Materials*, **2021**, 33, e2102593	24	27
29	Synthesis of silk-like FeS2/NiS2 hybrid nanocrystals with improved reversible oxygen catalytic performance in a Zn-air battery. *Chinese Journal of Catalysis*, **2019**, 40, 43-51	11.3	22
28	Activation of defective nickel molybdate nanowires for enhanced alkaline electrochemical hydrogen evolution. *Nanoscale*, **2018**, 10, 16539-16546	7.7	21
27	Nanocomposites CoPt-x/Diatomite-C as oxygen reversible electrocatalysts for zinc-air batteries: Diatomite boosted the catalytic activity and durability. *Electrochimica Acta*, **2018**, 284, 119-127	6.7	20
26	Atomic Arrangement in Metal-Doped NiS2 Boosts the Hydrogen Evolution Reaction in Alkaline Media. *Angewandte Chemie*, **2019**, 131, 18849-18855	3.6	20
25	A turn-on chemosensor for Hg2+ in aqueous media and its application in "MCT" imaging in living cells. *Dalton Transactions*, **2011**, 40, 6382-4	4.3	19
24	Interfacial Defect Engineering for Improved Portable Zinc‐Air Batteries with a Broad Working Temperature. *Angewandte Chemie*, **2019**, 131, 9559-9563	3.6	18
23	High-Quality Copper Sulfide Nanocrystals with Diverse Shapes and Their Catalysis for Electrochemical Reduction of H2O2. *Particle and Particle Systems Characterization*, **2015**, 32, 536-541	3.1	18
22	The Energy Level Regulation of CoMo Carbonate Hydroxide for the Enhanced Oxygen Evolution Reaction Activity. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6161-6169	8.3	17
21	Cu2O/CuO@rGO heterostructure derived from metal‐organic-frameworks as an advanced electrocatalyst for non-enzymatic electrochemical H2O2 sensor. *RSC Advances*, **2016**, 6, 103116-103123	3.7	17
20	Hierarchical ultrathin Mo(SxSe1‐x)2 nanosheets with tunable ferromagnetism and efficient hydrogen evolution reaction activity: towards defect site effect. *CrystEngComm*, **2015**, 17, 6420-6425	3.3	16
19	A New Hexagonal Cobalt Nanosheet Catalyst for Selective CO Conversion to Ethanal. *Journal of the American Chemical Society*, **2021**, 143, 15335-15343	16.4	15
18	In Situ Growth of Ceria on Cerium‐Nitrogen‐Carbon as Promoter for Oxygen Evolution Reaction. *Advanced Materials Interfaces*, **2017**, 4, 1700272	4.6	13
17	In Situ Activated Co3‐NixO4 as a Highly Active and Ultrastable Electrocatalyst for Hydrogen Generation. *ACS Catalysis*, **2021**, 11, 8174-8182	13.1	13
16	CoFe2O4 nanoparticles as efficient bifunctional catalysts applied in Zn-air battery. *Journal of Materials Research*, **2018**, 33, 590-600	2.5	12
15	Construction of surface lattice oxygen in metallic N‐CuCoS1.97 porous nanowire for wearable Zn‐air battery. *Journal of Energy Chemistry*, **2019**, 34, 1-9	12	12
14	Synthesis of manganese phosphate hybrid nanoflowers by collagen-templated biomineralization.. *RSC Advances*, **2018**, 8, 2708-2713	3.7	10
13	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	5.2	8

12	Supramolecular architecture built of Co(II) and a tripodal ligand containing 1-D water tapes with (H2O)16 cluster units. *Journal of Coordination Chemistry*, **2011**, 64, 1885-1893	1.6	8
11	Construction and Application of Interfacial Inorganic Nanostructures. *Chinese Journal of Chemistry*, **2020**, 38, 772-786	4.9	7
10	Atomic Sulfur Filling Oxygen Vacancies Optimizes H Absorption and Boosts the Hydrogen Evolution Reaction in Alkaline Media. *Angewandte Chemie*, **2021**, 133, 14236-14242	3.6	7
9	Lattice site-dependent metal leaching in perovskites toward a honeycomb-like water oxidation catalyst. *Science Advances*, **2021**, 7, eabk1788	14.3	6
8	Surface-Electronic-Structure Reconstruction of Perovskite via Double-Cation Gradient Etching for Superior Water Oxidation. *Nano Letters*, **2021**, 21, 8166-8174	11.5	5
7	Controlled fabrication of collagen-zinc phosphate hierarchical hybrid nanoflowers via a biomineralization process. *New Journal of Chemistry*, **2018**, 42, 12824-12829	3.6	4
6	Activation Strategies of Perovskite-Type Structure for Applications in Oxygen-Related Electrocatalysts.. *Small Methods*, **2021**, 5, e2100012	12.8	4
5	Tailoring Oxygen Reduction Reaction Pathway on Spinel Oxides via Surficial Geometrical-Site Occupation Modification Driven by Oxygen Evolution Reaction.. *Advanced Materials*, **2022**, e2202874	24	4
4	Atomic-level correlation between the electrochemical performance of an oxygen-evolving catalyst and the effects of CeO2 functionalization. *Nano Research*, **2022**, 15, 2994-3000	10	3
3	Progress in In Situ Research on Dynamic Surface Reconstruction of Electrocatalysts for Oxygen Evolution Reaction. *Advanced Energy and Sustainability Research*,2200036	1.6	3
2	Boosting the Electrocatalytic Oxygen Evolution of Perovskite LaCo 1□x Fe x O 3 by the Construction of Yolk-Shell Nanostructures and Electronic Modulation. *Small*,2201131	11	3
1	Surface chlorine doped perovskite-type cobaltate lanthanum for water oxidation. *Chinese Journal of Catalysis*, **2022**, 43, 1485-1492	11.3	2