

Xingwang Zhang

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.

65 papers	2,907 citations	23 h-index	53 g-index
69 ext. papers	3,719 ext. citations	9.8 avg, IF	5.47 L-index

#	Paper	IF	Citations
65	Ultrasmall Pt ₂ Sr alloy nanoparticles as efficient bifunctional electrocatalysts for oxygen reduction and hydrogen evolution in acidic media. <i>Journal of Energy Chemistry</i> , 2022 , 64, 315-322	12	3
64	Torsion strained iridium oxide for efficient acidic water oxidation in proton exchange membrane electrolyzers. <i>Nature Nanotechnology</i> , 2021 ,	28.7	21
63	Constructing Cationic Metal-Organic Framework Materials Based on Pyrimidyl as a Functional Group for Perrhenate/Pertechnetate Sorption. <i>Inorganic Chemistry</i> , 2021 , 60, 16420-16428	5.1	2
62	Neodymium-Doped IrO ₂ Electrocatalysts Supported on Titanium Plates for Enhanced Chlorine Evolution Reaction Performance. <i>ChemElectroChem</i> , 2021 , 8, 1204-1210	4.3	6
61	High-Throughput Screening of a Single-Atom Alloy for Electroreduction of Dinitrogen to Ammonia. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16336-16344	9.5	13
60	Comparative Investigation into the Complexation and Extraction Properties of Tridentate and Tetradentate Phosphine Oxide-Functionalized 1,10-Phenanthroline Ligands toward Lanthanides and Actinides. <i>Chemistry - A European Journal</i> , 2021 , 27, 10717-10730	4.8	6
59	Selective Dissolution and Separation of Rare Earths Using Guanidine-Based Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8507-8514	8.3	2
58	Influence of a N-Heterocyclic Core on the Binding Capability of N,O-Hybrid Diamide Ligands toward Trivalent Lanthanides and Actinides. <i>Inorganic Chemistry</i> , 2021 , 60, 8754-8764	5.1	10
57	A one-pot process based on P44414Cl-HCl aqueous biphasic system for recovering rare earth elements from NdFeB permanent magnet. <i>Chinese Chemical Letters</i> , 2021 , 33, 953-953	8.1	2
56	Heterogeneous single-cluster catalysts (Mn ₃ , Fe ₃ , Co ₃ , and Mo ₃) supported on nitrogen-doped graphene for robust electrochemical nitrogen reduction. <i>Journal of Energy Chemistry</i> , 2021 , 54, 612-619	12	19
55	Unfolding the Extraction and Complexation Behaviors of Trivalent f-Block Elements by a Tetradentate N,O-Hybrid Phenanthroline Derived Phosphine Oxide Ligand. <i>Inorganic Chemistry</i> , 2021 , 60, 2805-2815	5.1	10
54	Unveiling the Uncommon Fluorescent Recognition Mechanism towards Pertechnetate Using a Cationic Metal-Organic Framework Bearing N-Heterocyclic AIE Molecules. <i>Chemistry - A European Journal</i> , 2021 , 27, 5632-5637	4.8	7
53	Comprehensive comparison of bismuth and silver functionalized nickel foam composites in capturing radioactive gaseous iodine. <i>Journal of Hazardous Materials</i> , 2021 , 417, 125978	12.8	9
52	Cobalt and vanadium co-doped FeOOH nanoribbons: an iron-rich electrocatalyst for efficient water oxidation. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6485-6490	7.8	3
51	Unraveling the complexation mechanism of actinide(III) and lanthanide(III) with a new tetradentate phenanthroline-derived phosphonate ligand. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1726-1740	6.8	23
50	Strongly coupling of amorphous/crystalline reduced FeOOH/ENi(OH) heterostructure for extremely efficient water oxidation at ultra-high current density. <i>Journal of Colloid and Interface Science</i> , 2020 , 579, 340-346	9.3	16
49	Non-noble metal single-atom catalysts prepared by wet chemical method and their applications in electrochemical water splitting. <i>Journal of Energy Chemistry</i> , 2020 , 47, 333-345	12	52

48	Tuning electronic correlations of ultra-small IrO ₂ nanoparticles with La and Pt for enhanced oxygen evolution performance and long-durable stability in acidic media. <i>Applied Catalysis B: Environmental</i> , 2020 , 266, 118643	21.8	23
47	Synthesis of high-entropy alloy nanoparticles on supports by the fast moving bed pyrolysis. <i>Nature Communications</i> , 2020 , 11, 2016	17.4	61
46	Au ₁ Co ₁ Alloy Supported on Graphene Oxide with Enhanced Performance for Ambient Electrolysis of Nitrogen to Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 44-49	8.3	20
45	Dopants fixation of Ruthenium for boosting acidic oxygen evolution stability and activity. <i>Nature Communications</i> , 2020 , 11, 5368	17.4	68
44	Efficient Recovery of End-of-Life NdFeB Permanent Magnets by Selective Leaching with Deep Eutectic Solvents. <i>Environmental Science & Technology</i> , 2020 , 54, 10370-10379	10.3	18
43	Effect of Counteranions on the Extraction and Complexation of Trivalent Lanthanides with Tetradentate Phenanthroline-Derived Phosphonate Ligands. <i>Inorganic Chemistry</i> , 2020 , 59, 17453-17463 ^{5.1}	5.1	14
42	Direct CO Capture from Air via Crystallization with a Trichelating Iminoguanidine Ligand. <i>ACS Omega</i> , 2020 , 5, 20428-20437	3.9	5
41	Ce-Doped IrO Electro catalysts with Enhanced Performance for Water Oxidation in Acidic Media. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37006-37012	9.5	14
40	In situ growth of Fe and Nb co-doped [Ni(OH) ₂] nanosheet arrays on nickel foam for an efficient oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 3465-3474	6.8	6
39	Double Atom Catalysts: Heteronuclear Transition Metal Dimer Anchored on Nitrogen-Doped Graphene as Superior Electrocatalyst for Nitrogen Reduction Reaction. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000190	3.5	6
38	A strongly coupled 3D ternary Fe ₂ O ₃ @Ni ₂ P/Ni(PO ₃) ₂ hybrid for enhanced electrocatalytic oxygen evolution at ultra-high current densities. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 965-971	13	123
37	Synthesis of a Cu ₂ O/Carbon Film/NiCoB-Graphene Oxide Heterostructure as Photocathode for Photoelectrochemical Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 2004-2012	4.3	9
36	Enhancing photoelectrochemical hydrogen production of a n+p-Si hetero-junction photocathode with amorphous Ni and Ti layers. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 527-532	6.8	4
35	NiCoMo Hydroxide Nanosheet Arrays Synthesized via Chloride Corrosion for Overall Water Splitting. <i>ACS Energy Letters</i> , 2019 , 4, 952-959	20.1	152
34	Synthesis of a Cu ₂ O/Carbon Film/NiCoB-Graphene Oxide Heterostructure as Photocathode for Photoelectrochemical Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 1948-1948	4.3	
33	Kinetics and mechanism of low-concentration CO ₂ adsorption on solid amine in a humid confined space. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 697-701	2.3	2
32	In Situ Synthesis of Ternary NiCoRu-Based Layered Double Hydroxide by Chlorine Corrosion toward Electrocatalytic Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14361-14367	8.3	20
31	Synthesis of NiCo Alloy Nanoparticle-Decorated B,N-Doped Carbon Nanosheet Networks via a Self-Template Strategy for Bifunctional Oxygen-Involving Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14394-14399	8.3	11

30	Strongly Coupled 3D N-Doped MoO/NiS Hybrid for High Current Density Hydrogen Evolution Electrocatalysis and Biomass Upgrading. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27743-27750	9.5	52
29	High performance n+p-Si/Ti/NiS O photocathode for photoelectrochemical hydrogen evolution in alkaline solution. <i>Journal of Energy Chemistry</i> , 2019 , 30, 101-107	12	8
28	Nitrogen Vacancy Structure Driven Photoelectrocatalytic Degradation of 4-Chlorophenol Using Porous Graphitic Carbon Nitride Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6497-6506	8.3	49
27	Porous Cobalt Oxynitride Nanosheets for Efficient Electrocatalytic Water Oxidation. <i>ChemSusChem</i> , 2018 , 11, 1479-1485	8.3	24
26	Fe ₂ N ₄ Sites Embedded into Carbon Nanofiber Integrated with Electrochemically Exfoliated Graphene for Oxygen Evolution in Acidic Medium. <i>Advanced Energy Materials</i> , 2018 , 8, 1801912	21.8	149
25	Electrochemical activation of sulfate by BDD anode in basic medium for efficient removal of organic pollutants. <i>Chemosphere</i> , 2018 , 210, 516-523	8.4	68
24	Metal Organic Framework Derived Fe-Doped CoSe ₂ Incorporated in Nitrogen-Doped Carbon Hybrid for Efficient Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8672-8678	8.3	40
23	Efficient Electrocatalytic Oxygen Evolution at Extremely High Current Density over 3D Ultrasmall Zero-Valent Iron-Coupled Nickel Sulfide Nanosheets. <i>ChemElectroChem</i> , 2018 , 5, 3866-3872	4.3	37
22	Oxygen Evolution: Fe ₂ N ₄ Sites Embedded into Carbon Nanofiber Integrated with Electrochemically Exfoliated Graphene for Oxygen Evolution in Acidic Medium (Adv. Energy Mater. 26/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870119	21.8	2
21	An ultrathin cobalt-based zeolitic imidazolate framework nanosheet array with a strong synergistic effect towards the efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18877-18883	13.8	65
20	Bacteria-templated fabrication of a charge heterogeneous polymeric interface for highly specific bacterial recognition. <i>Chemical Communications</i> , 2017 , 53, 2319-2322	5.8	20
19	Amorphous Cobalt-Iron Hydroxide Nanosheet Electrocatalyst for Efficient Electrochemical and Photo-Electrochemical Oxygen Evolution. <i>Advanced Functional Materials</i> , 2017 , 27, 1603904	15.6	204
18	Hierarchical NiCo ₂ O ₄ Hollow Microcuboids as Bifunctional Electrocatalysts for Overall Water-Splitting. <i>Angewandte Chemie</i> , 2016 , 128, 6398-6402	3.6	112
17	Preferential adsorption of pentachlorophenol from chlorophenols-containing wastewater using N-doped ordered mesoporous carbon. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 1482-91	5.1	12
16	Innentitelbild: Hierarchical NiCo ₂ O ₄ Hollow Microcuboids as Bifunctional Electrocatalysts for Overall Water-Splitting (Angew. Chem. 21/2016). <i>Angewandte Chemie</i> , 2016 , 128, 6216-6216	3.6	2
15	Hierarchical NiCo ₂ O ₄ Hollow Microcuboids as Bifunctional Electrocatalysts for Overall Water-Splitting. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6290-4	16.4	592
14	In situ monitoring of <i>Shewanella oneidensis</i> MR-1 biofilm growth on gold electrodes by using a Pt microelectrode. <i>Bioelectrochemistry</i> , 2016 , 109, 95-100	5.6	7
13	A p-Si/NiCoSex core/shell nanopillar array photocathode for enhanced photoelectrochemical hydrogen production. <i>Energy and Environmental Science</i> , 2016 , 9, 3113-3119	35.4	142

12	Measurement and ANN prediction of pH-dependent solubility of nitrogen-heterocyclic compounds. <i>Chemosphere</i> , 2015 , 134, 402-7	8.4	10
11	Synthesis of supported vertical NiS ₂ nanosheets for hydrogen evolution reaction in acidic and alkaline solution. <i>RSC Advances</i> , 2015 , 5, 32976-32982	3.7	89
10	N-doped carbon xerogels as adsorbents for the removal of heavy metal ions from aqueous solution. <i>RSC Advances</i> , 2015 , 5, 7182-7191	3.7	30
9	Designing Efficient Solar-Driven Hydrogen Evolution Photocathodes Using Semitransparent MoQxCly (Q = S, Se) Catalysts on Si Micropyramids. <i>Advanced Materials</i> , 2015 , 27, 6511-8	24	80
8	Amorphous MoS _x Cly electrocatalyst supported by vertical graphene for efficient electrochemical and photoelectrochemical hydrogen generation. <i>Energy and Environmental Science</i> , 2015 , 8, 862-868	35.4	162
7	Pretreated multiwalled carbon nanotube adsorbents with amine-grafting for removal of carbon dioxide in confined spaces. <i>RSC Advances</i> , 2014 , 4, 56224-56234	3.7	17
6	Vertical heterostructures of layered metal chalcogenides by van der Waals epitaxy. <i>Nano Letters</i> , 2014 , 14, 3047-54	11.5	118
5	Polychlorinated Biphenyls in the Centralized Wastewater Treatment Plant in a Chemical Industry Zone: Source, Distribution, and Removal. <i>Journal of Chemistry</i> , 2014 , 2014, 1-10	2.3	13
4	Improvement of Atmospheric Water Surface Discharge with Water Resistive Barrier. <i>Plasma Chemistry and Plasma Processing</i> , 2013 , 33, 691-705	3.6	6
3	Study on the Relationship between Absorbed S(IV) and pH in the Seawater Flue Gas Desulfurization Process. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4478-4484	3.9	11
2	Polycyclic aromatic hydrocarbons in the centralized wastewater treatment plant of a chemical industry zone: Removal, mass balance and source analysis. <i>Science China Chemistry</i> , 2012 , 55, 416-425	7.9	14
1	Preparation of TiO ₂ /ITO film electrode by AP-MOCVD for photoelectrocatalytic application. <i>Science China Chemistry</i> , 2012 , 55, 2462-2470	7.9	5