

Wei Zhou

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.

92 papers	5,977 citations	35 h-index	77 g-index
99 ext. papers	7,961 ext. citations	11.6 avg, IF	6.49 L-index

#	Paper	IF	Citations
92	Rational Design of a High-Durability Pt-Based ORR Catalyst Supported on Mn/N Codoped Carbon Sheets for PEMFCs. <i>Energy & Fuels</i> , 2022 , 36, 1707-1715	4.1	5
91	Prediction of functionalized graphene as potential catalysts for overall water splitting. <i>Applied Surface Science</i> , 2022 , 578, 151989	6.7	1
90	Unravelling unsaturated edge S in amorphous NiS _x for boosting photocatalytic H ₂ evolution of metastable phase CdS confined inside hydrophilic beads. <i>Applied Catalysis B: Environmental</i> , 2022 , 305, 121055	21.8	6
89	Hydrated electrons mediated in-situ construction of cubic phase CdS/Cd thin layer on a millimeter-scale support for photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 769-781	9.3	5
88	Hollow core-shell Z-scheme heterojunction on self-floating carbon fiber cloth with robust photocatalytic-photothermal performance. <i>Journal of Cleaner Production</i> , 2022 , 132166	10.3	0
87	Activated edge of single layered TiO ₂ nanoribbons through transition metal doping and strain approaches for hydrogen production. <i>Applied Surface Science</i> , 2021 , 545, 148947	6.7	4
86	Fumaric Acid Assistant Band Structure Tunable Nitrogen Defective g-C ₃ N ₄ Fabrication for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7529-7540	8.3	10
85	Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO Electroreduction to Ethylene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16687-16692	16.4	21
84	Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO ₂ Electroreduction to Ethylene. <i>Angewandte Chemie</i> , 2021 , 133, 16823-16828	3.6	2
83	Integrated selective nitrite reduction to ammonia with tetrahydroisoquinoline semi-dehydrogenation over a vacancy-rich Ni bifunctional electrode. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 239-243	13	18
82	Tridecaboron diphosphide: a new infrared light active photocatalyst for efficient CO ₂ photoreduction under mild reaction conditions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2421-2428	13	5
81	Construction of a 3D/2D g-C ₃ N ₄ /ZnIn ₂ S ₄ hollow spherical heterostructure for efficient CO ₂ photoreduction under visible light. <i>Catalysis Science and Technology</i> , 2021 , 11, 1282-1291	5.5	11
80	Sulfur-Doped Flowerlike Porous Carbon Derived from Metal-Organic Frameworks as a High-Performance Potassium-Ion Battery Anode. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2282-2291	6.1	10
79	Hydrogen-Intercalation-Induced Lattice Expansion of Pd@Pt Core-Shell Nanoparticles for Highly Efficient Electrocatalytic Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11262-11270	16.4	18
78	Selectivity Origin of Organic Electrosynthesis Controlled by Electrode Materials: A Case Study on Pinacols. <i>ACS Catalysis</i> , 2021 , 11, 8958-8967	13.1	4
77	Structure-Designed Preparation of Pod-Like CuCo ₂ S ₄ /rGO as Advanced Anode Material Targeting Superior Sodium Storage. <i>ChemElectroChem</i> , 2021 , 8, 3666	4.3	2
76	Design of BiOBr _{0.25} I _{0.75} for synergy photoreduction Cr(VI) and capture Cr(III) over wide pH range. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	1

75	Lithium doped nickel oxide nanocrystals with a tuned electronic structure for oxygen evolution reaction. <i>Chemical Communications</i> , 2021 , 57, 6070-6073	5.8	5
74	Isolated Cobalt Centers on WO Nanowires Perform as a Reaction Switch for Efficient CO Photoreduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2173-2177	16.4	74
73	Amorphous molybdenum sulfide mediated EDTA with multiple active sites to boost heavy metal ions removal. <i>Chinese Chemical Letters</i> , 2020 , 32, 2797-2797	8.1	10
72	Implanting Isolated Ru Atoms into Edge-Rich Carbon Matrix for Efficient Electrocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2020 , 10, 2000882	21.8	70
71	Stabilizing CuGaS by crystalline CdS through an interfacial Z-scheme charge transfer for enhanced photocatalytic CO reduction under visible light. <i>Nanoscale</i> , 2020 , 12, 8693-8700	7.7	24
70	Boron enhances oxygen evolution reaction activity over Ni foam-supported iron boride nanowires. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13638-13645	13	26
69	Ultrathin graphene encapsulated Cu nanoparticles: A highly stable and efficient catalyst for photocatalytic H ₂ evolution and degradation of isopropanol. <i>Chemical Engineering Journal</i> , 2020 , 390, 124558	14.7	30
68	Unveiling the Activity Origin of a Copper-based Electrocatalyst for Selective Nitrate Reduction to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5350-5354	16.4	232
67	Visible light driven hydrogen evolution using external and confined CdS: Effect of chitosan on carriers separation. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119152	21.8	21
66	Improved photocatalytic HER activity of 5B monolayer with doping and strain engineering. <i>Applied Surface Science</i> , 2020 , 507, 145194	6.7	9
65	Activated HER performance of defected single layered TiO ₂ nanosheet via transition metal doping. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2681-2688	6.7	15
64	Efficient photocatalytic CO ₂ reduction mediated by transitional metal borides: metal site-dependent activity and selectivity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21833-21841	13	7
63	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. <i>Matter</i> , 2020 , 3, 2124-2137	12.7	86
62	Tunable HER activity from doping and strain strategies for 5B monolayer: DFT calculations. <i>Computational Materials Science</i> , 2020 , 185, 109966	3.2	3
61	Unveiling the Origin of Catalytic Sites of Pt Nanoparticles Decorated on Oxygen-Deficient Vanadium-Doped Cobalt Hydroxide Nanosheet for Hybrid Sodium-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7464-7473	6.1	5
60	Selective Photo-oxidation of Methane to Methanol with Oxygen over Dual-Cocatalyst-Modified Titanium Dioxide. <i>ACS Catalysis</i> , 2020 , 10, 14318-14326	13.1	34
59	Nitrogen-doped ultrathin graphene encapsulated Cu nanoparticles decorated on SrTiO ₃ as an efficient water oxidation photocatalyst with activity comparable to BiVO ₄ under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119352	21.8	27
58	Computational Design of Copper doped Indium for electrocatalytic Reduction of CO ₂ to Formic Acid. <i>ChemCatChem</i> , 2020 , 12, 5632-5636	5.2	5

57	Unveiling the Promotion of Surface-Adsorbed Chalcogenate on the Electrocatalytic Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22470-22474	16.4	93
56	Large Interlayer Spacing of Few-Layered Cobalt-Tin-Based Sulfide Providing Superior Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41546-41556	9.5	5
55	Scaling law of hydrogen evolution reaction for InSe monolayer with 3d transition metals doping and strain engineering. <i>Journal of Energy Chemistry</i> , 2020 , 41, 107-114	12	17
54	Band structure and optical properties of MoS ₂ /SnO ₂ hetero-bilayer from hybrid functional calculations. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122071	4.4	7
53	Photocatalysis and hydrogen production from water solution 2020 , 555-577		
52	Built-In Electric Field Hindering Photogenerated Carrier Recombination in Polar Bilayer SnO/BiOX (X = Cl, Br, I) for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9696-9702	3.8	12
51	Construction of Porous Co ₉ S ₈ Hollow Boxes with Double Open Ends toward High-Performance Half/Full Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6305-6314	8.3	26
50	Powder exfoliated MoS nanosheets with highly monolayer-rich structures as high-performance lithium-/sodium-ion-battery electrodes. <i>Nanoscale</i> , 2019 , 11, 1887-1900	7.7	71
49	Cation Vacancy-Initiated CO ₂ Photoreduction over ZnS for Efficient Formate Production. <i>ACS Energy Letters</i> , 2019 , 4, 1387-1393	20.1	53
48	Hierarchical MoS Hollow Architectures with Abundant Mo Vacancies for Efficient Sodium Storage. <i>ACS Nano</i> , 2019 , 13, 5533-5540	16.7	134
47	Ultrathin FeOOH nanosheets as an efficient cocatalyst for photocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9222-9229	13	63
46	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019 , 29, 1904020	15.6	70
45	Superionic conduction along ordered hydroxyl networks in molecular-thin nanosheets. <i>Materials Horizons</i> , 2019 , 6, 2087-2093	14.4	8
44	Constructing Sn(II)-doped SrNb ₂ O ₆ for visible light response driven H ₂ and O ₂ evolution from water. <i>Catalysis Science and Technology</i> , 2019 , 9, 3619-3622	5.5	1
43	Oxygen vacancies induced special CO ₂ adsorption modes on Bi ₂ MoO ₆ for highly selective conversion to CH ₄ . <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118088	21.8	100
42	Coexistence of Magnetism and Ferroelectricity in 3d Transition-Metal-Doped SnTe Monolayer. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28919-28924	3.8	5
41	Superficial Hydroxyl and Amino Groups Synergistically Active Polymeric Carbon Nitride for CO ₂ Electroreduction. <i>ACS Catalysis</i> , 2019 , 9, 10983-10989	13.1	66
40	Intramolecular electronic coupling in porous iron cobalt (oxy)phosphide nanoboxes enhances the electrocatalytic activity for oxygen evolution. <i>Energy and Environmental Science</i> , 2019 , 12, 3348-3355	35.4	147

39	Enhanced adsorption of Cr(VI) on BiOBr under alkaline conditions: interlayer anion exchange. <i>Environmental Science: Nano</i> , 2019 , 6, 3601-3610	7.1	16
38	Direct and Selective Photocatalytic Oxidation of CH ₄ to Oxygenates with O ₂ on Cocatalysts/ZnO at Room Temperature in Water. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20507-20515	16.4	99
37	Tunable Photocatalytic HER Activity of Single-Layered TiO ₂ Nanosheets with Transition-Metal Doping and Biaxial Strain. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 526-533	3.8	23
36	Probing the role of nickel dopant in aqueous colloidal ZnS nanocrystals for efficient solar-driven CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 1013-1020	21.8	32
35	Tunable electronic and magnetic properties of antimonene system via Fe doping and defect complex: A first-principles perspective. <i>Applied Surface Science</i> , 2018 , 448, 281-287	6.7	16
34	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , 2018 , 4, eaao6657	14.3	344
33	Interface engineered in situ anchoring of CoS nanoparticles into a multiple doped carbon matrix: highly efficient zinc-air batteries. <i>Nanoscale</i> , 2018 , 10, 2649-2657	7.7	53
32	Efficient photocatalytic CO ₂ reduction over Co(II) species modified CdS in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 252-257	21.8	57
31	Photoassisted Construction of Holey Defective g-C ₃ N Photocatalysts for Efficient Visible-Light-Driven H ₂ O Production. <i>Small</i> , 2018 , 14, 1703142	11	231
30	Enhanced Lubrication and Photocatalytic Degradation of Liquid Paraffin by Hollow MoS ₂ Microspheres. <i>ACS Omega</i> , 2018 , 3, 3120-3128	3.9	9
29	Heterostructured violet phosphorene as a promising candidate for optoelectronic and photocatalytic applications: first-principles characterization. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11967-11975	3.6	32
28	Tuning the ferromagnetism of a single layered titanium dioxide nanosheet with hole doping and uniaxial strain. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 305804	1.8	5
27	Enhanced Visible-Light-Driven Hydrogen Production of Carbon Nitride by Band Structure Tuning. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17261-17267	3.8	20
26	A modular strategy for decorating isolated cobalt atoms into multichannel carbon matrix for electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , 2018 , 11, 1980-1984	35.4	173
25	Spontaneous Direct Band Gap, High Hole Mobility, and Huge Exciton Energy in Atomic-Thin TiO ₂ Nanosheet. <i>Chemistry of Materials</i> , 2018 , 30, 6449-6457	9.6	31
24	Periodically Ordered Nanoporous Perovskite Photoelectrode for Efficient Photoelectrochemical Water Splitting. <i>ACS Nano</i> , 2018 , 12, 6335-6342	16.7	50
23	Doping BiCoMoO ₄ Nanoplates with Phosphorus for Efficient Hydrogen Evolution Reaction in Alkaline Media. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37038-37045	9.5	55
22	Open hollow CoPt clusters embedded in carbon nanoflake arrays for highly efficient alkaline water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20214-20223	13	29

21	Surface Modulation of Hierarchical MoS ₂ Nanosheets by Ni Single Atoms for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2018 , 28, 1807086	15.6	237
20	Synthesis of Particulate Hierarchical Tandem Heterojunctions toward Optimized Photocatalytic Hydrogen Production. <i>Advanced Materials</i> , 2018 , 30, e1804282	24	251
19	A rapidly room-temperature-synthesized Cd/ZnS:Cu nanocrystal photocatalyst for highly efficient solar-light-powered CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 68-73	21.8	42
18	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. <i>Advanced Science</i> , 2017 , 4, 1600371	13.6	440
17	Novel optical and magnetic properties of Li-doped quasi-2D manganate Ca ₃ Mn ₂ O ₇ particles. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7011-7019	7.1	10
16	Viable approach toward efficient p-type conductivity in Al-doped anatase TiO ₂ via strain engineering. <i>RSC Advances</i> , 2017 , 7, 20542-20547	3.7	3
15	Engineering the crystallinity of MoS ₂ monolayers for highly efficient solar hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8591-8598	13	60
14	Cubic quantum dot/hexagonal microsphere ZnIn ₂ S ₄ heterophase junctions for exceptional visible-light-driven photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8451-8460	13	132
13	Rational design of freestanding MoS ₂ monolayers for hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 39, 409-417	17.1	83
12	Electronic and Optical Properties of TiO ₂ Solid-Solution Nanosheets for Bandgap Engineering: A Hybrid Functional Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18683-18691	3.8	5
11	Barium disilicide as a promising thin-film photovoltaic absorber: structural, electronic, and defect properties. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25293-25302	13	49
10	Improved charge separation and surface activation via boron-doped layered polyhedron SrTiO ₃ for co-catalyst free photocatalytic CO ₂ conversion. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 10-17	21.8	85
9	n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. <i>Nano Energy</i> , 2016 , 28, 158-163	17.1	70
8	Emerging Multifunctional Metal-Organic Framework Materials. <i>Advanced Materials</i> , 2016 , 28, 8819-8860	24	955
7	High performance Au-Cu alloy for enhanced visible-light water splitting driven by coinage metals. <i>Chemical Communications</i> , 2016 , 52, 4694-7	5.8	46
6	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct p-n Homojunctions for Enhanced Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , 2016 , 26, 6822-6829	15.6	429
5	Band gap engineering of bulk and nanosheet SnO: an insight into the interlayer Sn-Sn lone pair interactions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17816-20	3.6	73
4	Tailoring Band Structure of TiO ₂ To Enhance Photoelectrochemical Activity by Codoping S and Mg. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11557-11562	3.8	31

3	Single-atom catalysts for thermal- and electro-catalytic hydrogenation reactions. <i>Journal of Materials Chemistry A</i> ,	13	2
2	Regulating the surface state of ZnIn ₂ S ₄ by gamma-ray irradiation for enhanced photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> ,	5.5	1
1	Efficient electrochemical water oxidation to hydrogen peroxide over intrinsic carbon defect-rich carbon nanofibers. <i>Journal of Materials Chemistry A</i> ,	13	2