

## List of Publications by Citations

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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	Emerging Multifunctional Metal-Organic Framework Materials. <i>Advanced Materials</i> , <b>2016</b> , 28, 8819-8860	24	955
91	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. <i>Advanced Science</i> , <b>2017</b> , 4, 1600371	13.6	440
90	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct p-n Homojunctions for Enhanced Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6822-6829	15.6	429
89	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , <b>2018</b> , 4, eaao6657	14.3	344
88	Synthesis of Particulate Hierarchical Tandem Heterojunctions toward Optimized Photocatalytic Hydrogen Production. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804282	24	251
87	Surface Modulation of Hierarchical MoS <sub>2</sub> Nanosheets by Ni Single Atoms for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1807086	15.6	237
86	Unveiling the Activity Origin of a Copper-based Electrocatalyst for Selective Nitrate Reduction to Ammonia. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5350-5354	16.4	232
85	Photoassisted Construction of Holey Defective g-C <sub>3</sub> N <sub>4</sub> Photocatalysts for Efficient Visible-Light-Driven H <sub>2</sub> O <sub>2</sub> Production. <i>Small</i> , <b>2018</b> , 14, 1703142	11	231
84	A modular strategy for decorating isolated cobalt atoms into multichannel carbon matrix for electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1980-1984	35.4	173
83	Intramolecular electronic coupling in porous iron cobalt (oxy)phosphide nanoboxes enhances the electrocatalytic activity for oxygen evolution. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3348-3355	35.4	147
82	Hierarchical MoS <sub>2</sub> Hollow Architectures with Abundant Mo Vacancies for Efficient Sodium Storage. <i>ACS Nano</i> , <b>2019</b> , 13, 5533-5540	16.7	134
81	Cubic quantum dot/hexagonal microsphere ZnIn <sub>2</sub> S <sub>4</sub> heterophase junctions for exceptional visible-light-driven photocatalytic H <sub>2</sub> evolution. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8451-8460	13	132
80	Oxygen vacancies induced special CO <sub>2</sub> adsorption modes on Bi <sub>2</sub> MoO <sub>6</sub> for highly selective conversion to CH <sub>4</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 259, 118088	21.8	100
79	Direct and Selective Photocatalytic Oxidation of CH <sub>4</sub> to Oxygenates with O <sub>2</sub> on Cocatalysts/ZnO at Room Temperature in Water. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 20507-20515	16.4	99
78	Unveiling the Promotion of Surface-Adsorbed Chalcogenate on the Electrocatalytic Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22470-22474	16.4	93
77	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. <i>Matter</i> , <b>2020</b> , 3, 2124-2137	12.7	86
76	Improved charge separation and surface activation via boron-doped layered polyhedron SrTiO <sub>3</sub> for co-catalyst free photocatalytic CO <sub>2</sub> conversion. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 219, 10-17	21.8	85

75	Rational design of freestanding MoS <sub>2</sub> monolayers for hydrogen evolution reaction. <i>Nano Energy</i> , <b>2017</b> , 39, 409-417	17.1	83
74	Isolated Cobalt Centers on WO Nanowires Perform as a Reaction Switch for Efficient CO Photoreduction. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2173-2177	16.4	74
73	Band gap engineering of bulk and nanosheet SnO: an insight into the interlayer Sn-Sn lone pair interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 17816-20	3.6	73
72	Powder exfoliated MoS nanosheets with highly monolayer-rich structures as high-performance lithium-/sodium-ion-battery electrodes. <i>Nanoscale</i> , <b>2019</b> , 11, 1887-1900	7.7	71
71	Implanting Isolated Ru Atoms into Edge-Rich Carbon Matrix for Efficient Electrocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000882	21.8	70
70	n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. <i>Nano Energy</i> , <b>2016</b> , 28, 158-163	17.1	70
69	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904020	15.6	70
68	Superficial Hydroxyl and Amino Groups Synergistically Active Polymeric Carbon Nitride for CO <sub>2</sub> Electroreduction. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10983-10989	13.1	66
67	Ultrathin FeOOH nanosheets as an efficient cocatalyst for photocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9222-9229	13	63
66	Engineering the crystallinity of MoS <sub>2</sub> monolayers for highly efficient solar hydrogen production. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8591-8598	13	60
65	Efficient photocatalytic CO <sub>2</sub> reduction over Co(II) species modified CdS in aqueous solution. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 252-257	21.8	57
64	Doping ECoMoO Nanoplates with Phosphorus for Efficient Hydrogen Evolution Reaction in Alkaline Media. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37038-37045	9.5	55
63	Cation Vacancy-Initiated CO <sub>2</sub> Photoreduction over ZnS for Efficient Formate Production. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1387-1393	20.1	53
62	Interface engineered in situ anchoring of CoS nanoparticles into a multiple doped carbon matrix: highly efficient zinc-air batteries. <i>Nanoscale</i> , <b>2018</b> , 10, 2649-2657	7.7	53
61	Periodically Ordered Nanoporous Perovskite Photoelectrode for Efficient Photoelectrochemical Water Splitting. <i>ACS Nano</i> , <b>2018</b> , 12, 6335-6342	16.7	50
60	Barium disilicide as a promising thin-film photovoltaic absorber: structural, electronic, and defect properties. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 25293-25302	13	49
59	High performance Au-Cu alloy for enhanced visible-light water splitting driven by coinage metals. <i>Chemical Communications</i> , <b>2016</b> , 52, 4694-7	5.8	46
58	A rapidly room-temperature-synthesized Cd/ZnS:Cu nanocrystal photocatalyst for highly efficient solar-light-powered CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 68-73	21.8	42

57	Selective Photo-oxidation of Methane to Methanol with Oxygen over Dual-Cocatalyst-Modified Titanium Dioxide. <i>ACS Catalysis</i> , <b>2020</b> , 10, 14318-14326	13.1	34
56	Hittorf's violet phosphorene as a promising candidate for optoelectronic and photocatalytic applications: first-principles characterization. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 11967-11975 <sup>3,6</sup>	3.6	32
55	Probing the role of nickel dopant in aqueous colloidal ZnS nanocrystals for efficient solar-driven CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 1013-1020	21.8	32
54	Tailoring Band Structure of TiO <sub>2</sub> To Enhance Photoelectrochemical Activity by Codoping S and Mg. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 11557-11562	3.8	31
53	Spontaneous Direct Band Gap, High Hole Mobility, and Huge Exciton Energy in Atomic-Thin TiO <sub>2</sub> Nanosheet. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6449-6457	9.6	31
52	Ultrathin graphene encapsulated Cu nanoparticles: A highly stable and efficient catalyst for photocatalytic H <sub>2</sub> evolution and degradation of isopropanol. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124558	14.7	30
51	Open hollow CoPt clusters embedded in carbon nanoflake arrays for highly efficient alkaline water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20214-20223	13	29
50	Nitrogen-doped ultrathin graphene encapsulated Cu nanoparticles decorated on SrTiO <sub>3</sub> as an efficient water oxidation photocatalyst with activity comparable to BiVO <sub>4</sub> under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 279, 119352	21.8	27
49	Boron enhances oxygen evolution reaction activity over Ni foam-supported iron boride nanowires. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13638-13645	13	26
48	Construction of Porous Co <sub>9</sub> S <sub>8</sub> Hollow Boxes with Double Open Ends toward High-Performance Half/Full Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6305-6314	8.3	26
47	Stabilizing CuGaS by crystalline CdS through an interfacial Z-scheme charge transfer for enhanced photocatalytic CO reduction under visible light. <i>Nanoscale</i> , <b>2020</b> , 12, 8693-8700	7.7	24
46	Tunable Photocatalytic HER Activity of Single-Layered TiO <sub>2</sub> Nanosheets with Transition-Metal Doping and Biaxial Strain. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 526-533	3.8	23
45	Visible light driven hydrogen evolution using external and confined CdS: Effect of chitosan on carriers separation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 277, 119152	21.8	21
44	Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO Electroreduction to Ethylene. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 16687-16692	16.4	21
43	Enhanced Visible-Light-Driven Hydrogen Production of Carbon Nitride by Band Structure Tuning. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 17261-17267	3.8	20
42	Integrated selective nitrite reduction to ammonia with tetrahydroisoquinoline semi-dehydrogenation over a vacancy-rich Ni bifunctional electrode. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 239-243	13	18
41	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> , <b>2021</b> , 143, 11262-11270 <sup>16,4</sup>	16.4	18
40	Scaling law of hydrogen evolution reaction for InSe monolayer with 3d transition metals doping and strain engineering. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 41, 107-114	12	17

39	Tunable electronic and magnetic properties of antimonene system via Fe doping and defect complex: A first-principles perspective. <i>Applied Surface Science</i> , <b>2018</b> , 448, 281-287	6.7	16
38	Enhanced adsorption of Cr(VI) on BiOBr under alkaline conditions: interlayer anion exchange. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 3601-3610	7.1	16
37	Activated HER performance of defected single layered TiO <sub>2</sub> nanosheet via transition metal doping. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 2681-2688	6.7	15
36	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> , <b>2020</b> , 124, 9696-9702	3.8	12
35	Construction of a 3D/2D g-C <sub>3</sub> N <sub>4</sub> /ZnIn <sub>2</sub> S <sub>4</sub> hollow spherical heterostructure for efficient CO <sub>2</sub> photoreduction under visible light. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 1282-1291	5.5	11
34	Novel optical and magnetic properties of Li-doped quasi-2D manganate Ca <sub>3</sub> Mn <sub>2</sub> O <sub>7</sub> particles. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7011-7019	7.1	10
33	Amorphous molybdenum sulfide mediated EDTA with multiple active sites to boost heavy metal ions removal. <i>Chinese Chemical Letters</i> , <b>2020</b> , 32, 2797-2797	8.1	10
32	Fumaric Acid Assistant Band Structure Tunable Nitrogen Defective g-C <sub>3</sub> N <sub>4</sub> Fabrication for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 7529-7540	8.3	10
31	Sulfur-Doped Flowerlike Porous Carbon Derived from Metal-Organic Frameworks as a High-Performance Potassium-Ion Battery Anode. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2282-2291	6.1	10
30	Enhanced Lubrication and Photocatalytic Degradation of Liquid Paraffin by Hollow MoS <sub>2</sub> Microspheres. <i>ACS Omega</i> , <b>2018</b> , 3, 3120-3128	3.9	9
29	Improved photocatalytic HER activity of Sb monolayer with doping and strain engineering. <i>Applied Surface Science</i> , <b>2020</b> , 507, 145194	6.7	9
28	Superionic conduction along ordered hydroxyl networks in molecular-thin nanosheets. <i>Materials Horizons</i> , <b>2019</b> , 6, 2087-2093	14.4	8
27	Efficient photocatalytic CO <sub>2</sub> reduction mediated by transitional metal borides: metal site-dependent activity and selectivity. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 21833-21841	13	7
26	Band structure and optical properties of MoS <sub>2</sub> /SnO <sub>2</sub> hetero-bilayer from hybrid functional calculations. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 239, 122071	4.4	7
25	Unravelling unsaturated edge S in amorphous NiS <sub>x</sub> for boosting photocatalytic H <sub>2</sub> evolution of metastable phase CdS confined inside hydrophilic beads. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 305, 121055	21.8	6
24	Tuning the ferromagnetism of a single layered titanium dioxide nanosheet with hole doping and uniaxial strain. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 305804	1.8	5
23	Coexistence of Magnetism and Ferroelectricity in 3d Transition-Metal-Doped SnTe Monolayer. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 28919-28924	3.8	5
22	Electronic and Optical Properties of TiO <sub>2</sub> Solid-Solution Nanosheets for Bandgap Engineering: A Hybrid Functional Study. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 18683-18691	3.8	5

21	Rational Design of a High-Durability Pt-Based ORR Catalyst Supported on Mn/N Codoped Carbon Sheets for PEMFCs. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 1707-1715	4.1	5
20	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> , <b>2020</b> , 3, 7464-7473	6.1	5
19	Computational Design of Copper doped Indium for electrocatalytic Reduction of CO <sub>2</sub> to Formic Acid. <i>ChemCatChem</i> , <b>2020</b> , 12, 5632-5636	5.2	5
18	Large Interlayer Spacing of Few-Layered Cobalt-Tin-Based Sulfide Providing Superior Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41546-41556	9.5	5
17	Tridecaboron diphosphide: a new infrared light active photocatalyst for efficient CO <sub>2</sub> photoreduction under mild reaction conditions. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2421-2428	13	5
16	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> , <b>2022</b> , 607, 769-781	9.3	5
15	Lithium doped nickel oxide nanocrystals with a tuned electronic structure for oxygen evolution reaction. <i>Chemical Communications</i> , <b>2021</b> , 57, 6070-6073	5.8	5
14	Activated edge of single layered TiO <sub>2</sub> nanoribbons through transition metal doping and strain approaches for hydrogen production. <i>Applied Surface Science</i> , <b>2021</b> , 545, 148947	6.7	4
13	Selectivity Origin of Organic Electrosynthesis Controlled by Electrode Materials: A Case Study on Pinacols. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8958-8967	13.1	4
12	Viable approach toward efficient p-type conductivity in Al-doped anatase TiO <sub>2</sub> via strain engineering. <i>RSC Advances</i> , <b>2017</b> , 7, 20542-20547	3.7	3
11	Tunable HER activity from doping and strain strategies for Bb monolayer: DFT calculations. <i>Computational Materials Science</i> , <b>2020</b> , 185, 109966	3.2	3
10	Single-atom catalysts for thermal- and electro-catalytic hydrogenation reactions. <i>Journal of Materials Chemistry A</i> ,	13	2
9	Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO <sub>2</sub> Electroreduction to Ethylene. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16823-16828	3.6	2
8	Efficient electrochemical water oxidation to hydrogen peroxide over intrinsic carbon defect-rich carbon nanofibers. <i>Journal of Materials Chemistry A</i> ,	13	2
7	Structure-Designed Preparation of Pod-Like CuCo <sub>2</sub> S <sub>4</sub> /rGO as Advanced Anode Material Targeting Superior Sodium Storage. <i>ChemElectroChem</i> , <b>2021</b> , 8, 3666	4.3	2
6	Constructing Sn(II)-doped SrNb <sub>2</sub> O <sub>6</sub> for visible light response driven H <sub>2</sub> and O <sub>2</sub> evolution from water. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 3619-3622	5.5	1
5	Prediction of functionalized graphene as potential catalysts for overall water splitting. <i>Applied Surface Science</i> , <b>2022</b> , 578, 151989	6.7	1
4	Regulating the surface state of ZnIn <sub>2</sub> S <sub>4</sub> by gamma-ray irradiation for enhanced photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> ,	5.5	1

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| 3 | Design of BiOBr <sub>0.25</sub> I <sub>0.75</sub> for synergy photoreduction Cr(VI) and capture Cr(III) over wide pH range. <i>Chinese Chemical Letters</i> , <b>2021</b> ,                    | 8.1  | 1 |
| 2 | Hollow core-shell Z-scheme heterojunction on self-floating carbon fiber cloth with robust photocatalytic-photothermal performance. <i>Journal of Cleaner Production</i> , <b>2022</b> , 132166 | 10.3 | 0 |
| 1 | Photocatalysis and hydrogen production from water solution <b>2020</b> , 555-577   |      |   |