

Hui-Chao He

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.

69 papers	1,529 citations	21 h-index	37 g-index
74 ext. papers	2,064 ext. citations	7.8 avg, IF	4.9 L-index

#	Paper	IF	Citations
69	Efficient adsorption of U(VI) using in low-level radioactive wastewater containing organic matter by amino groups modified polyacrylonitrile fibers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2022 , 331, 921	1.5	0
68	Geometric and electronic modulation of fcc NiCo alloy by Group-VI B metal doping to accelerate hydrogen evolution reaction in acidic and alkaline media. <i>Chemical Engineering Journal</i> , 2022 , 430, 133110	14.7	5
67	Objective Findings on the K-Doped -CN Photocatalysts: The Presence and Influence of Organic Byproducts on K-Doped -CN Photocatalysis. <i>Langmuir</i> , 2021 , 37, 4859-4868	4	4
66	WO ₃ homojunction photoanode: Integrating the advantages of WO ₃ different facets for efficient water oxidation. <i>Journal of Energy Chemistry</i> , 2021 , 56, 37-45	12	12
65	Accurate Understanding the Catalytic Role of MnO ₂ in the Oxidative-Coupling of 2-naphthols into 1,1'-bi-2-naphthols. <i>Catalysis Letters</i> , 2021 , 151, 901-908	2.8	1
64	Magnetic Field-Assisted Photoelectrochemical Water Splitting: The Photoelectrodes Have Weaker Nonradiative Recombination of Carrier. <i>ACS Catalysis</i> , 2021 , 11, 1242-1247	13.1	15
63	Fe ₂ O ₃ /Ag/CdS ternary heterojunction photoanode for efficient solar water oxidation. <i>Catalysis Science and Technology</i> , 2021 , 11, 5859-5867	5.5	2
62	Vacancy-defect modulated pathway of photoreduction of CO on single atomically thin AgInPS sheets into olefiant gas. <i>Nature Communications</i> , 2021 , 12, 4747	17.4	28
61	Objective Observations of the Electrochemical Production of H ₂ O ₂ in KHCO ₃ Aqueous Electrolyte and Related Application Inspirations. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19831-19838	3.8	1
60	Dual-functional water splitting: Electro-fenton-like pollutants degradation from anode reaction and hydrogen fuel production from cathode reaction. <i>Electrochimica Acta</i> , 2021 , 394, 139122	6.7	1
59	Synthesis and characterization of Sb ₂ O ₃ : a stable electrocatalyst for efficient H ₂ O ₂ production and accumulation and effective degradation of dyes. <i>New Journal of Chemistry</i> , 2021 , 45, 8958-8964	3.6	4
58	Trimetallic CoFeCr hydroxide electrocatalysts synthesized at a low temperature for accelerating water oxidation via tuning the electronic structure of active sites. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3647-3653	5.8	7
57	Anchoring of black phosphorus quantum dots onto WO nanowires to boost photocatalytic CO conversion into solar fuels. <i>Chemical Communications</i> , 2020 , 56, 7777-7780	5.8	29
56	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boots Solar Hydrogen Evolution. <i>Solar Rrl</i> , 2020 , 4, 2070062	7.1	3
55	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boots Solar Hydrogen Evolution. <i>Solar Rrl</i> , 2020 , 4, 2000094	7.1	6
54	Unpaired Electron-Induced Wide-Range Light Absorption within Zn (or Cu) MOFs Containing Electron-Withdrawing Ligands: A Theoretical and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5314-5322	2.8	2
53	Thermodynamic and Kinetic Influence of Oxygen Vacancies on the Solar Water Oxidation Reaction of FeO Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11625-11634	9.5	21

52	Cascade cycling of nicotinamide cofactor in a dual enzyme microsystem. <i>Chemical Communications</i> , 2020 , 56, 2723-2726	5.8	4
51	Pyridine-Diketopyrrolopyrrole-Based Novel Metal-Free Visible-Light Organophotoredox Catalyst for Atom-Transfer Radical Polymerization. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1068-1075	2.8	11
50	Magnetic field improved photoelectrochemical synthesis of 5,5'-azotetrazolate energetic salts and hydrogen in a hematite photoanode-based cell. <i>Electrochimica Acta</i> , 2020 , 330, 135217	6.7	4
49	Photocatalytic oxidative-coupling of 5-amino-1H-tetrazole for the synthesis of 5,5'-azotetrazolate energetic salts at mild conditions. <i>Catalysis Communications</i> , 2020 , 136, 105923	3.2	0
48	In situ no-slot joint integration of half-metallic C(CN) ₃ cocatalyst into g-C ₃ N ₄ scaffold: An absolute metal-free in-plane heterosystem for efficient and selective photoconversion of CO ₂ into CO. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118470	21.8	26
47	Cu ₃ Mo ₂ O ₉ /BiVO ₄ Heterojunction Films with Integrated Thermodynamic and Kinetic Advantages for Solar Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14082-14090	8.3	11
46	State-of-the-art advancements of crystal facet-exposed photocatalysts beyond TiO ₂ : Design and dependent performance for solar energy conversion and environment applications. <i>Materials Today</i> , 2020 , 33, 75-86	21.8	50
45	Convenient Synthesis of 5,5'-azotetrazolate Energetic Salts through Electrochemical Oxidative-Coupling of 5-amino-1H-tetrazole Under Mild Conditions. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 065503	3.9	1
44	Photoelectrochemical Driving and Simultaneous Synthesis of 3-pyridinecarboxylic Acid and Hydrogen in WO ₃ Photoanode-Based Cell. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H662-H668	3.9	5
43	State-of-the-art progress in the use of ternary metal oxides as photoelectrode materials for water splitting and organic synthesis. <i>Nano Today</i> , 2019 , 28, 100763	17.9	40
42	Insight into the Kinetic Influence of Oxygen Vacancies on the WO Photoanodes for Solar Water Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6159-6165	6.4	12
41	Boosting the hydrogen evolution performance of a ternary Mo _x Co _{1-x} P nanowire array by tuning the Mo/Co ratio. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14842-14848	13	21
40	Electrodeposited amorphous cobalt phosphosulfide on Ni foams for highly efficient overall water splitting. <i>Journal of Power Sources</i> , 2019 , 431, 182-188	8.9	31
39	Carbon-incorporated NiO/CoO concave surface microcubes derived from a MOF precursor for overall water splitting. <i>Chemical Communications</i> , 2019 , 55, 6515-6518	5.8	66
38	Highly symmetrical, 24-faceted, concave BiVO polyhedron bounded by multiple high-index facets for prominent photocatalytic O ₂ evolution under visible light. <i>Chemical Communications</i> , 2019 , 55, 4777-4780	5.8	17
37	BiVO tubular structures: oxygen defect-rich and largely exposed reactive {010} facets synergistically boost photocatalytic water oxidation and the selective N ₂ coupling reaction of 5-amino-1H-tetrazole. <i>Chemical Communications</i> , 2019 , 55, 5635-5638	5.8	12
36	Convincing Synthesis of Atomically Thin, Single-Crystalline InVO Sheets toward Promoting Highly Selective and Efficient Solar Conversion of CO into CO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4209-4213	16.4	124
35	Interfacial Engineering for the Fast Carrier Tunneling Channel by a Novelty Quaternary Layered Photoanode. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6780-6789	6.1	3

34	Carbon-incorporated porous honeycomb NiCoFe phosphide nanospheres derived from a MOF precursor for overall water splitting. <i>Chemical Communications</i> , 2019 , 55, 10896-10899	5.8	48
33	Insight into the Improvement Mechanism of Copper Oxide/BiVO ₄ Heterojunction Photoanodes for Solar Water Oxidation. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H513-H520	3.9	13
32	Competitive Adsorption of Uranyl and Toxic Trace Metal Ions at MFe ₂ O ₄ -montmorillonite (M = Mn, Fe, Zn, Co, or Ni) Interfaces. <i>Clays and Clay Minerals</i> , 2019 , 67, 291-305	2.1	4
31	Hole dynamic acceleration over CdSO nanoparticles for high-efficiency solar hydrogen production with urea photolysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25650-25656	13	3
30	Ultrathin nanosheet-anchored hexahedral prismatic Bi ₂ MoO ₆ arrays: one-step constructed and crystal facet-based homojunctions boosting photocatalytic CO ₂ reduction and N ₂ fixation. <i>Catalysis Science and Technology</i> , 2019 , 9, 7045-7050	5.5	7
29	Impact of Ferroelectric Polarization on Different Semiconductors for Photoelectrochemical Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19640-19648	8.3	10
28	An Efficient Metal-Free Photocatalytic System with Enhanced Activity for NADH Regeneration. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 23567-23573	3.9	5
27	MoO ₃ /BiVO ₄ heterojunction film with oxygen vacancies for efficient and stable photoelectrochemical water oxidation. <i>Journal of Materials Science</i> , 2019 , 54, 671-682	4.3	11
26	Reduced-graphene-oxide-loaded MoS ₂ /Ni ₃ S ₂ nanorod arrays on Ni foam as an efficient and stable electrocatalyst for the hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2019 , 99, 22-26	5.1	15
25	Selective adsorption of uranyl and potentially toxic metal ions at the core-shell MFeO-TiO (M=Mn, Fe, Zn, Co, or Ni) nanoparticles. <i>Journal of Hazardous Materials</i> , 2019 , 365, 835-845	12.8	18
24	Improving photoelectrochemical reduction of Cr(VI) ions by building FeO/TiO electrode. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 22455-22463	5.1	9
23	Quasi-Topotactic Transformation of FeOOH Nanorods to Robust FeO Porous Nanopillars Triggered with a Facile Rapid Dehydration Strategy for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10141-10146	9.5	30
22	Enhanced charge separation and transfer by Bi ₂ MoO ₆ @Bi ₂ Mo ₂ O ₉ compound using SILAR for photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2018 , 264, 26-35	6.7	23
21	A high-efficiency photocatalyst, flaky anatase@natural rutile composite using one-step microwave hydrothermal synthesis. <i>Research on Chemical Intermediates</i> , 2018 , 44, 705-720	2.8	5
20	In ³⁺ -doped BiVO ₄ photoanodes with passivated surface states for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10456-10465	13	57
19	Photoelectrochemical driving and clean synthesis of energetic salts of 5,5'-azotetrazolate at room temperature. <i>Green Chemistry</i> , 2018 , 20, 3722-3726	10	14
18	Enhanced photoelectrochemical water oxidation on WO ₃ nanoflake films by coupling with amorphous TiO ₂ . <i>Electrochimica Acta</i> , 2018 , 283, 871-881	6.7	29
17	Polyhedral 30-Faceted BiVO Microcrystals Predominantly Enclosed by High-Index Planes Promoting Photocatalytic Water-Splitting Activity. <i>Advanced Materials</i> , 2018 , 30, 1703119	24	117

16	Enhanced Photoelectrochemical Water Oxidation Performance on BiVO by Coupling of CoMoO as a Hole-Transfer and Conversion Cocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42207-42216	9.5	18
15	Boosted Water Oxidation Activity and Kinetics on BiVO Photoanodes with Multihigh-Index Crystal Facets. <i>Inorganic Chemistry</i> , 2018 , 57, 15280-15288	5.1	16
14	Selective Removal of Uranyl from Aqueous Solutions Containing a Mix of Toxic Metal Ions Using Core-Shell MFe ₂ O ₄ /TiO ₂ Nanoparticles of Montmorillonite Edge Sites. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16267-16278	8.3	13
13	Simultaneous removal and recovery of uranium from aqueous solution using TiO ₂ photoelectrochemical reduction method. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 313, 59-67	1.5	27
12	Three-Dimensional Dendritic Structures of NiCoMo as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22420-22431	9.5	55
11	Facile room-temperature surface modification of unprecedented FeB co-catalysts on Fe ₂ O ₃ nanorod photoanodes for high photoelectrochemical performance. <i>Journal of Catalysis</i> , 2017 , 352, 113-119	7.3	29
10	Improved Surface Charge Transfer in MoO ₃ /BiVO ₄ Heterojunction Film for Photoelectrochemical Water Oxidation. <i>Electrochimica Acta</i> , 2017 , 257, 181-191	6.7	42
9	Self-Assembly of Water-Soluble Glutathione Thiol-Capped n-Hematite/Zn-Ferrites (X = Mg, Mn, or Ni): Experiment and Theory. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24046-24059	3.8	5
8	Microbially Mediated Stable Uranium Phosphate Nano-Biominerals. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 6771-6780	1.3	10
7	Ordered NiO/TiO ₂ nanotube arrays as an efficient catalyst support for methanol oxidation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 2085-2090	1.6	8
6	p-Si/W ₂ C and p-Si/W ₂ C/Pt photocathodes for the hydrogen evolution reaction. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1535-44	16.4	70
5	Synthesis of BiVO ₄ nanoflake array films for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9371-9379	13	121
4	Nanostructured Bi ₂ S ₃ /WO ₃ heterojunction films exhibiting enhanced photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12826	13	114
3	State-of-the-art advancements of transition metal oxides as photoelectrode materials for solar water splitting. <i>Rare Metals</i> , 1	5.5	1
2	Boosting O ₂ Reduction and H ₂ O Dehydrogenation Kinetics: Surface N-Hydroxymethylation of g-C ₃ N ₄ Photocatalysts for the Efficient Production of H ₂ O ₂ . <i>Advanced Functional Materials</i> , 2111125	15.6	2
1	Development of an alkaline Electro-Fenton process based on the synthesis of H ₂ O ₂ in bicarbonate electrolyte. <i>Catalysis Science and Technology</i> ,	5.5	