

zhenhua Pan

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.

35
papers

2,130
citations

17
h-index

39
g-index

39
ext. papers

2,828
ext. citations

10.6
avg, IF

4.9
L-index

#	Paper	IF	Citations
35	Scalable water splitting on particulate photocatalyst sheets with a solar-to-hydrogen energy conversion efficiency exceeding 1. <i>Nature Materials</i> , 2016 , 15, 611-5	27	979
34	Particulate Photocatalyst Sheets Based on Carbon Conductor Layer for Efficient Z-Scheme Pure-Water Splitting at Ambient Pressure. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1675-1683	16.4	252
33	Oxysulfide photocatalyst for visible-light-driven overall water splitting. <i>Nature Materials</i> , 2019 , 18, 827-832	33.2	222
32	Spatially separating redox centers on 2D carbon nitride with cobalt single atom for photocatalytic HO production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 6376-6382	11.5	95
31	Photocatalyst Sheets Composed of Particulate LaMg _{1/3} Ta _{2/3} O ₂ N and Mo-Doped BiVO ₄ for Z-Scheme Water Splitting under Visible Light. <i>ACS Catalysis</i> , 2016 , 6, 7188-7196	13.1	68
30	Electrochemical and Photoelectrochemical Water Oxidation for Hydrogen Peroxide Production. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10469-10480	16.4	51
29	Photoreduced Graphene Oxide as a Conductive Binder to Improve the Water Splitting Activity of Photocatalyst Sheets. <i>Advanced Functional Materials</i> , 2016 , 26, 7011-7019	15.6	47
28	Electronic Tuning of Metal Nanoparticles for Highly Efficient Photocatalytic Hydrogen Peroxide Production. <i>ACS Catalysis</i> , 2019 , 9, 626-631	13.1	47
27	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7415-7422	13	46
26	Sequential cocatalyst decoration on BaTaON towards highly-active Z-scheme water splitting. <i>Nature Communications</i> , 2021 , 12, 1005	17.4	46
25	Surface Modifications of (ZnSe)(CuGaSe) to Promote Photocatalytic Z-Scheme Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10633-10641	16.4	29
24	Application of LaMg _{1/3} Ta _{2/3} O ₂ N as a hydrogen evolution photocatalyst of a photocatalyst sheet for Z-scheme water splitting. <i>Applied Catalysis A: General</i> , 2016 , 521, 26-33	5.1	28
23	Preparation and characterization of ZrO ₂ /TiO ₂ composite photocatalytic film by micro-arc oxidation. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 2945-2950	3.3	25
22	Tunable nano-interfaces between MnO _x and layered double hydroxides boost oxygen evolving electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21918-21926	13	21
21	Elucidating charge separation in particulate photocatalysts using nearly intrinsic semiconductors with small asymmetric band bending. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 850-864	5.8	18
20	Stable Water Oxidation in Acid Using Manganese-Modified TiO Protective Coatings. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18805-18815	9.5	17
19	Mutually-dependent kinetics and energetics of photocatalyst/co-catalyst/two-redox liquid junctions. <i>Energy and Environmental Science</i> , 2020 , 13, 162-173	35.4	17

18	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H Evolution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10059-10064	16.4	17
17	Metal-organic frameworks derived cobalt encapsulated in porous nitrogen-doped carbon nanostructure towards highly efficient and durable oxygen reduction reaction electrocatalysis. <i>Journal of Power Sources</i> , 2020 , 451, 227747	8.9	16
16	Metal selenides for photocatalytic Z-scheme pure water splitting mediated by reduced graphene oxide. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 1668-1672	11.3	15
15	Overall photosynthesis of HO by an inorganic semiconductor.. <i>Nature Communications</i> , 2022 , 13, 1034	17.4	11
14	A Novel Way to Prepare Visible-Light-Responsive WO ₃ /TiO ₂ Composite Film with High Porosity. <i>International Journal of Applied Ceramic Technology</i> , 2014 , 11, 254-262	2	10
13	Cathodic Hydrogen Peroxide Electrosynthesis Using Anthraquinone Modified Carbon Nitride on Gas Diffusion Electrode. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7972-7979	6.1	10
12	Hydrogen evolution activity tuning via two-dimensional electron accumulation at buried interfaces. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20696-20705	13	8
11	Preparation of narrow band gap V ₂ O ₅ /TiO ₂ composite films by micro-arc oxidation. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012 , 19, 1045-1051	3.1	7
10	III-V Semiconductor Photoelectrodes. <i>Semiconductors and Semimetals</i> , 2017 , 97, 81-138	0.6	6
9	Synthesis of Y ₂ Ti ₂ O ₅ S ₂ by thermal sulfidation for photocatalytic water oxidation and reduction under visible light irradiation. <i>Research on Chemical Intermediates</i> , 2021 , 47, 225-234	2.8	6
8	Synthesis of a Ga-doped La ₅ Ti ₂ Cu _{0.9} Ag _{0.1} O ₇ S ₅ photocatalyst by thermal sulfidation for hydrogen evolution under visible light. <i>Journal of Catalysis</i> , 2021 , 399, 230-236	7.3	5
7	Photocatalytic Ozonation of Oxalic Acid Over Cu(II)-Grafted TiO ₂ Under Visible Light Irradiation. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015 , 45, 447-450		4
6	Mechanism and kinetics of H-acid degradation in TiO ₂ /O ₃ /UV process. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 851-860	2.3	3
5	Cocatalyst engineering of a narrow bandgap Ga-La ₅ Ti ₂ Cu _{0.9} Ag _{0.1} O ₇ S ₅ photocatalyst towards effectively enhanced water splitting. <i>Journal of Materials Chemistry A</i> ,	13	1
4	Electrochemical and Photoelectrochemical Water Oxidation for Hydrogen Peroxide Production. <i>Angewandte Chemie</i> , 2021 , 133, 10561-10572	3.6	1
3	Charge Separation in Photocatalysts: Mechanisms, Physical Parameters, and Design Principles. <i>ACS Energy Letters</i> , 2022 , 7, 432-452	20.1	1
2	Physical properties and photocatalytic activity of pulverized Ga-doped La ₅ Ti ₂ Cu _{0.9} Ag _{0.1} O ₇ S ₅ powder. <i>Materials Letters</i> , 2022 , 319, 132290	3.3	
1	Microscopic Interfacial Charge Transfer at Perovskite/Hole Transport Layer Interfaces Clarified Using Pattern-Illumination Time-Resolved Phase Microscopy. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 7548-7555	3.8	

