

# zhenhua Pan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2317144/publications.pdf>

Version: 2024-02-01

39  
papers

3,548  
citations

304368  
22  
h-index

329751  
37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

4210  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable water splitting on particulate photocatalyst sheets with a solar-to-hydrogen energy conversion efficiency exceeding 1%. <i>Nature Materials</i> , 2016, 15, 611-615.	13.3	1,311
2	Oxysulfide photocatalyst for visible-light-driven overall water splitting. <i>Nature Materials</i> , 2019, 18, 827-832.	13.3	422
3	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.	6.6	322
4	Spatially separating redox centers on 2D carbon nitride with cobalt single atom for photocatalytic H <sub>2</sub> O <sub>2</sub> production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6376-6382.	3.3	245
5	Electrochemical and Photoelectrochemical Water Oxidation for Hydrogen Peroxide Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10469-10480.	7.2	152
6	Sequential cocatalyst decoration on BaTaO <sub>2</sub> N towards highly-active Z-scheme water splitting. <i>Nature Communications</i> , 2021, 12, 1005.	5.8	124
7	Overall photosynthesis of H <sub>2</sub> O <sub>2</sub> by an inorganic semiconductor. <i>Nature Communications</i> , 2022, 13, 1034.	5.8	105
8	Surface Modifications of (ZnSe) <sub>0.5</sub> (CuGa <sub>2.5</sub> Se <sub>4.25</sub> ) <sub>0.5</sub> to Promote Photocatalytic Z-Scheme Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2021, 143, 10633-10641.	6.6	88
9	Electronic Tuning of Metal Nanoparticles for Highly Efficient Photocatalytic Hydrogen Peroxide Production. <i>ACS Catalysis</i> , 2019, 9, 626-631.	5.5	84
10	Photocatalyst Sheets Composed of Particulate LaMg <sub>1/3</sub> Ta <sub>2/3</sub> O <sub>2</sub> N and Mo-Doped BiVO <sub>4</sub> for Z-Scheme Water Splitting under Visible Light. <i>ACS Catalysis</i> , 2016, 6, 7188-7196.	5.5	79
11	Metal selenide photocatalysts for visible-light-driven <i>Z</i> -scheme pure water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7415-7422.	5.2	67
12	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.	7.8	62
13	Simultaneously Tuning the Defects and Surface Properties of Ta <sub>3</sub> N <sub>5</sub> Nanoparticles by Mg <sup>2+</sup> /Zr Codoping for Significantly Accelerated Photocatalytic H <sub>2</sub> O <sub>2</sub> Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 10059-10064.	6.6	62
14	Charge Separation in Photocatalysts: Mechanisms, Physical Parameters, and Design Principles. <i>ACS Energy Letters</i> , 2022, 7, 432-452.	8.8	41
15	Application of LaMg <sub>1/3</sub> Ta <sub>2/3</sub> O <sub>2</sub> 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.	2.2	36
16	Preparation and characterization of ZrO <sub>2</sub> /TiO <sub>2</sub> composite photocatalytic film by micro-arc oxidation. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 2945-2950.	1.7	32
17	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.	2.5	30
18	Cathodic Hydrogen Peroxide Electrosynthesis Using Anthraquinone Modified Carbon Nitride on Gas Diffusion Electrode. <i>ACS Applied Energy Materials</i> , 2019, 2, 7972-7979.	2.5	30

#	ARTICLE	IF	CITATIONS
19	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.	4.0	30
20	Tunable nano-interfaces between MnO <sub>x</sub> and layered double hydroxides boost oxygen evolving electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21918-21926.	5.2	29
21	Mutually-dependent kinetics and energetics of photocatalyst/co-catalyst/two-redox liquid junctions. <i>Energy and Environmental Science</i> , 2020, 13, 162-173.	15.6	29
22	Stable Water Oxidation in Acid Using Manganese-Modified TiO <sub>2</sub> Protective Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18805-18815.	4.0	24
23	Metal selenides for photocatalytic Z-scheme pure water splitting mediated by reduced graphene oxide. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1668-1672.	6.9	21
24	Synthesis of Y <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub> S <sub>2</sub> by thermal sulfidation for photocatalytic water oxidation and reduction under visible light irradiation. <i>Research on Chemical Intermediates</i> , 2021, 47, 225-234.	1.3	19
25	Cocatalyst engineering of a narrow bandgap Ga-La <sub>5</sub> Ti <sub>2</sub> Cu <sub>0.9</sub> Ag <sub>0.1</sub> O <sub>7</sub> S <sub>5</sub> photocatalyst towards effectively enhanced water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27485-27492.	5.2	16
26	A Novel Way to Prepare Visible-Light-Responsive WO <sub>3</sub> /TiO <sub>2</sub> Composite Film with High Porosity. <i>International Journal of Applied Ceramic Technology</i> , 2014, 11, 254-262.	1.1	13
27	Hydrogen evolution activity tuning via two-dimensional electron accumulation at buried interfaces. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20696-20705.	5.2	11
28	III-V Semiconductor Photoelectrodes. <i>Semiconductors and Semimetals</i> , 2017, 97, 81-138.	0.4	10
29	Synthesis of a Ga-doped La <sub>5</sub> Ti <sub>2</sub> Cu <sub>0.9</sub> Ag <sub>0.1</sub> O <sub>7</sub> S <sub>5</sub> photocatalyst by thermal sulfidation for hydrogen evolution under visible light. <i>Journal of Catalysis</i> , 2021, 399, 230-236.	3.1	10
30	Hematite photoanodes prepared by particle transfer for photoelectrochemical water splitting. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2067-2074.	2.5	9
31	Tailoring the morphology of hafnium zirconium oxide (Hf <sub>0.6</sub> Zr <sub>0.4</sub> O <sub>2</sub> ) as a cocatalyst for photoelectrochemical water oxidation over a hematite (Fe <sub>2</sub> O <sub>3</sub> ) photoanode. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 876-881.	1.0	9
32	Preparation of narrow band gap V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> composite films by micro-arc oxidation. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 1045-1051.	2.4	7
33	BiVO <sub>4</sub> -Dotted WO <sub>3</sub> Photoanode with an Inverse Opal Underlayer for Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2022, 5, 5750-5755.	2.5	7
34	Photocatalytic Ozonation of Oxalic Acid Over Cu(II)-Grafted TiO <sub>2</sub> Under Visible Light Irradiation. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015, 45, 447-450.	0.6	5
35	Mechanism and kinetics of H <sub>2</sub> acid degradation in TiO <sub>2</sub> /O <sub>3</sub> /UV process. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 851-860.	0.9	4
36	Electrochemical and Photoelectrochemical Water Oxidation for Hydrogen Peroxide Production. <i>Angewandte Chemie</i> , 2021, 133, 10561-10572.	1.6	2

#	ARTICLE	IF	CITATIONS
37	Microscopic Interfacial Charge Transfer at Perovskite/Hole Transport Layer Interfaces Clarified Using Pattern-Illumination Time-Resolved Phase Microscopy. Journal of Physical Chemistry C, 2022, 126, 7548-7555.	1.5	1
38	Physical properties and photocatalytic activity of pulverized Ga-doped La <sub>5</sub> Ti <sub>2</sub> Cu <sub>0.9</sub> Ag <sub>0.1</sub> O <sub>7</sub> S <sub>5</sub> powder. Materials Letters, 2022, 319, 132290.	1.3	0
39	Local charge carrier dynamics of a particulate Ga-doped La <sub>5</sub> Ti <sub>2</sub> Cu <sub>0.9</sub> Ag <sub>0.1</sub> O <sub>7</sub> S <sub>5</sub> photocatalyst and the impact of Rh cocatalysts. Physical Chemistry Chemical Physics, 0, , .	1.3	0