

# Qian Wang

## 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.

30 papers	3,792 citations	22 h-index	30 g-index
30 ext. papers	4,982 ext. citations	19.7 avg, IF	6.41 L-index

#	Paper	IF	Citations
30	Formation of hierarchical Bi <sub>2</sub> MoO <sub>6</sub> /In <sub>2</sub> S <sub>3</sub> S-scheme heterojunction with rich oxygen vacancies for boosting photocatalytic CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132456	14.7	15
29	Self-propelled jet carbon micromotor enhanced photocatalytic performance for water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 17187-17196	6.7	1
28	Photocatalytic Z-scheme water splitting <b>2021</b> , 131-176		
27	Linking in situ charge accumulation to electronic structure in doped SrTiO reveals design principles for hydrogen-evolving photocatalysts. <i>Nature Materials</i> , <b>2021</b> , 20, 511-517	27	24
26	A three-dimensional hybrid electrode with electroactive microbes for efficient electrogenesis and chemical synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 5074-5080	11.5	19
25	Mutually-dependent kinetics and energetics of photocatalyst/co-catalyst/two-redox liquid junctions. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 162-173	35.4	17
24	Single crystalline quaternary sulfide nanobelts for efficient solar-to-hydrogen conversion. <i>Nature Communications</i> , <b>2020</b> , 11, 5194	17.4	27
23	Molecularly engineered photocatalyst sheet for scalable solar formate production from carbon dioxide and water. <i>Nature Energy</i> , <b>2020</b> , 5, 703-710	62.3	67
22	Particulate Photocatalysts for Light-Driven Water Splitting: Mechanisms, Challenges, and Design Strategies. <i>Chemical Reviews</i> , <b>2020</b> , 120, 919-985	68.1	765
21	Revealing the role of the Rh valence state, La doping level and Ru cocatalyst in determining the H <sub>2</sub> evolution efficiency in doped SrTiO <sub>3</sub> photocatalysts. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 208-218	5.8	36
20	Oxysulfide photocatalyst for visible-light-driven overall water splitting. <i>Nature Materials</i> , <b>2019</b> , 18, 827-832	27.2	222
19	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7415-7422	13	46
18	Visible-Light-Driven Photocatalytic Z-Scheme Overall Water Splitting in La Ti AgS O -based Powder-Suspension System. <i>ChemSusChem</i> , <b>2019</b> , 12, 1906-1910	8.3	20
17	A Particulate Photocatalyst Water-Splitting Panel for Large-Scale Solar Hydrogen Generation. <i>Joule</i> , <b>2018</b> , 2, 509-520	27.8	307
16	Efficient Redox-Mediator-Free Z-Scheme Water Splitting Employing Oxysulfide Photocatalysts under Visible Light. <i>ACS Catalysis</i> , <b>2018</b> , 8, 1690-1696	13.1	90
15	Particulate photocatalyst sheets based on non-oxide semiconductor materials for water splitting under visible light irradiation. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 3918-3925	5.5	17
14	Printable Photocatalyst Sheets Incorporating a Transparent Conductive Mediator for Z-Scheme Water Splitting. <i>Joule</i> , <b>2018</b> , 2, 2667-2680	27.8	41

13	Overall water splitting by Ta <sub>3</sub> N <sub>5</sub> nanorod single crystals grown on the edges of KTaO <sub>3</sub> particles. <i>Nature Catalysis</i> , <b>2018</b> , 1, 756-763	36.5	259
12	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> , <b>2017</b> , 139, 1675-1683	16.4	252
11	Particulate photocatalyst sheets for Z-scheme water splitting: advantages over powder suspension and photoelectrochemical systems and future challenges. <i>Faraday Discussions</i> , <b>2017</b> , 197, 491-504	3.6	34
10	Rational Interpretation of Correlated Kinetics of Mobile and Trapped Charge Carriers: Analysis of Ultrafast Carrier Dynamics in BiVO <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19044-19052	3.8	28
9	Photoreduced Graphene Oxide as a Conductive Binder to Improve the Water Splitting Activity of Photocatalyst Sheets. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7011-7019	15.6	47
8	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> , <b>2016</b> , 6, 7188-7196	13.1	68
7	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> , <b>2016</b> , 521, 26-33	5.1	28
6	Synthesis of Nanostructured BaTaO <sub>2</sub> N Thin Films as Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 15758-15764	3.8	55
5	Scalable water splitting on particulate photocatalyst sheets with a solar-to-hydrogen energy conversion efficiency exceeding 1. <i>Nature Materials</i> , <b>2016</b> , 15, 611-5	27	979
4	Z-scheme water splitting using particulate semiconductors immobilized onto metal layers for efficient electron relay. <i>Journal of Catalysis</i> , <b>2015</b> , 328, 308-315	7.3	91
3	Core/Shell Structured La- and Rh-Codoped SrTiO <sub>3</sub> as a Hydrogen Evolution Photocatalyst in Z-Scheme Overall Water Splitting under Visible Light Irradiation. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4144-4150	8.6	197
2	Physicochemical properties and photocatalytic H <sub>2</sub> evolution activity of Rh-doped La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> prepared by molten salt synthesis. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 2098	5.5	28
1	Strategies to improve light utilization in solar fuel synthesis. <i>Nature Energy</i> ,	62.3	12