

# Shanshan Chen

## List of Publications by Year in descending order

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37  
papers

4,521  
citations

236912

25  
h-index

315719

38  
g-index

40  
all docs

40  
docs citations

40  
times ranked

4668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Particulate photocatalysts for overall water splitting. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	1,427
2	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> , 2018, 1, 756-763.	34.4	390
3	A Tantalum Nitride Photoanode Modified with a Hole-Storage Layer for Highly Stable Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7295-7299.	13.8	354
4	Interface Engineering of a CoO <sub>x</sub> /Ta <sub>3</sub> N <sub>5</sub> Photocatalyst for Unprecedented Water Oxidation Performance under Visible-Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3047-3051.	13.8	254
5	Efficient Visible-Light-Driven Z-Scheme Overall Water Splitting Using a MgTa <sub>2</sub> O <sub>6</sub> /N <sub>x</sub> /TaON Heterostructure Photocatalyst for H <sub>2</sub> Evolution. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8498-8501.	13.8	252
6	Unraveling of cocatalysts photodeposited selectively on facets of BiVO <sub>4</sub> to boost solar water splitting. <i>Nature Communications</i> , 2022, 13, 484.	12.8	156
7	Surface Strategies for Particulate Photocatalysts toward Artificial Photosynthesis. <i>Joule</i> , 2018, 2, 2260-2288.	24.0	146
8	Efficient Redox-Mediator-Free Z-Scheme Water Splitting Employing Oxysulfide Photocatalysts under Visible Light. <i>ACS Catalysis</i> , 2018, 8, 1690-1696.	11.2	127
9	Visible-Light-Driven Photocatalytic Water Splitting: Recent Progress and Challenges. <i>Trends in Chemistry</i> , 2020, 2, 813-824.	8.5	126
10	Sequential cocatalyst decoration on BaTaO <sub>2</sub> N towards highly-active Z-scheme water splitting. <i>Nature Communications</i> , 2021, 12, 1005.	12.8	124
11	Achievement of visible-light-driven Z-scheme overall water splitting using barium-modified Ta <sub>3</sub> N <sub>5</sub> as a H <sub>2</sub> -evolving photocatalyst. <i>Chemical Science</i> , 2017, 8, 437-443.	7.4	110
12	Visible Light-Driven Z-Scheme Water Splitting Using Oxysulfide H <sub>2</sub> Evolution Photocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3892-3896.	4.6	101
13	Nitrogen-doped layered oxide Sr <sub>5</sub> Ta <sub>4</sub> O <sub>15</sub> xN <sub>x</sub> for water reduction and oxidation under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5651.	10.3	89
14	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.	13.7	88
15	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.	11.2	79
16	A wide visible-light-responsive tunneled MgTa <sub>2</sub> O <sub>6</sub> /N <sub>x</sub> photocatalyst for water oxidation and reduction. <i>Chemical Communications</i> , 2014, 50, 14415-14417.	4.1	75
17	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7415-7422.	10.3	67
18	Magnesia interface nanolayer modification of Pt/Ta <sub>3</sub> N <sub>5</sub> for promoted photocatalytic hydrogen production under visible light irradiation. <i>Journal of Catalysis</i> , 2016, 339, 77-83.	6.2	62

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19	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.	14.9	62
20	Interface Engineering of a $\text{CoO}/\text{Ta}_3\text{N}_5$ Photocatalyst for Unprecedented Water Oxidation Performance under Visible-Light Irradiation. <i>Angewandte Chemie</i> , 2015, 127, 3090-3094.	2.0	48
21	Synthesis, Features, and Applications of Mesoporous Titania with $\text{TiO}_2(\text{B})$ . <i>Chinese Journal of Catalysis</i> , 2010, 31, 605-614.	14.0	36
22	Inhibiting competing reactions of iodate/iodide redox mediators by surface modification of photocatalysts to enable Z-scheme overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 579-585.	20.2	33
23	Visible-Light-Driven Photocatalytic Z-Scheme Overall Water Splitting in $\text{La}_5\text{Ti}_2\text{AgS}_5\text{O}_7$ -based Powder Suspension System. <i>ChemSusChem</i> , 2019, 12, 1906-1910.	6.8	29
24	Understanding the effect of partial $\text{N}_3^-$ -to- $\text{O}_2^-$ substitution and $\text{H}^+$ -to- $\text{K}^+$ exchange on photocatalytic water reduction activity of Ruddlesden-Popper layered perovskite $\text{KLaTiO}_4$ . <i>Molecular Catalysis</i> , 2017, 432, 250-258.	2.0	22
25	Metal selenides for photocatalytic Z-scheme pure water splitting mediated by reduced graphene oxide. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1668-1672.	14.0	21
26	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. <i>Chemical Science</i> , 2020, 11, 6436-6441.	7.4	21
27	Plate-like $\text{Sm}_2\text{Ti}_2\text{S}_2\text{O}_5$ Particles Prepared by a Flux-Assisted One-Step Synthesis for the Evolution of $\text{O}_2$ from Aqueous Solutions by Both Photocatalytic and Photoelectrochemical Reactions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13492-13499.	3.1	18
28	Cocatalyst engineering of a narrow bandgap $\text{Ga-La}_5\text{Ti}_2\text{Cu}_{0.9}\text{Ag}_{0.1}\text{O}_7\text{S}_5$ photocatalyst towards effectively enhanced water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27485-27492.	10.3	16
29	Recent progress on photocatalysts with wide visible light range absorption for heterogeneous water splitting. <i>Chinese Journal of Catalysis</i> , 2014, 35, 1431-1432.	14.0	13
30	A Na-containing Pt cocatalyst for efficient visible-light-induced hydrogen evolution on $\text{BaTaO}_2\text{N}$ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 13851-13854.	10.3	13
31	Preparation and Characterization of Mesoporous $\text{MoO}_3/\text{TiO}_2$ Composite with High Surface Area by Self-Supporting and Ammonia Method. <i>Catalysis Letters</i> , 2012, 142, 480-485.	2.6	12
32	Oxidation of Carbon Monoxide over a Fibrous Titania-Supported Gold Catalyst. <i>Chinese Journal of Catalysis</i> , 2009, 30, 421-425.	14.0	10
33	Synthesis of a Ga-doped $\text{La}_5\text{Ti}_2\text{Cu}_{0.9}\text{Ag}_{0.1}\text{O}_7\text{S}_5$ photocatalyst by thermal sulfidation for hydrogen evolution under visible light. <i>Journal of Catalysis</i> , 2021, 399, 230-236.	6.2	10
34	A one-step synthesis of a $\text{Ta}_3\text{N}_5$ nanorod photoanode from Ta plates and $\text{NH}_4\text{Cl}$ powder for photoelectrochemical water oxidation. <i>Chemical Communications</i> , 2020, 56, 11843-11846.	4.1	6
35	Interfacial Engineering of $\text{NiMo}/\text{Mesoporous TiO}_2$ Catalyst with Carbon for Enhanced Hydrodesulfurization Performance. <i>Catalysis Letters</i> , 2018, 148, 992-1002.	2.6	4
36	Highly Crystalline $\text{TiO}_2$ Whisker Modified with Pt and Its Photocatalytic Performance. <i>Chinese Journal of Catalysis</i> , 2010, 31, 1271-1276.	14.0	2

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37	Evidence of Kinetically Relevant Consistency in Thermal and Photoâ€Thermal HCOOH Decomposition over Pd/LaCrO <sub>3</sub> /C <sub>3</sub> N <sub>4</sub> Composite. Chemistry - A European Journal, 2022, 28, .	3.3	1