Shanshan Chen

List of Publications by Year in Descending Order

38 papers	3,038 citations	23 h-index	40 g-index
40 ext. papers	3,760 ext. citations	12.9 avg, IF	5.64 L-index

#	Paper	IF	Citations
38	Unraveling of cocatalysts photodeposited selectively on facets of BiVO to boost solar water splitting.. *Nature Communications*, **2022**, 13, 484	17.4	21
37	Surface Modifications of (ZnSe)(CuGaSe) to Promote Photocatalytic Z-Scheme Overall Water Splitting. *Journal of the American Chemical Society*, **2021**, 143, 10633-10641	16.4	29
36	A Na-containing Pt cocatalyst for efficient visible-light-induced hydrogen evolution on BaTaO2N. *Journal of Materials Chemistry A*, **2021**, 9, 13851-13854	13	3
35	Sequential cocatalyst decoration on BaTaON towards highly-active Z-scheme water splitting. *Nature Communications*, **2021**, 12, 1005	17.4	46
34	Synthesis of a Ga-doped La5Ti2Cu0.9Ag0.1O7S5 photocatalyst by thermal sulfidation for hydrogen evolution under visible light. *Journal of Catalysis*, **2021**, 399, 230-236	7.3	5
33	Visible-Light-Driven Photocatalytic Water Splitting: Recent Progress and Challenges. *Trends in Chemistry*, **2020**, 2, 813-824	14.8	53
32	A one-step synthesis of a TaN nanorod photoanode from Ta plates and NHCl powder for photoelectrochemical water oxidation. *Chemical Communications*, **2020**, 56, 11843-11846	5.8	2
31	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. *Chemical Science*, **2020**, 11, 6436-6441	9.4	13
30	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. *Journal of Materials Chemistry A*, **2019**, 7, 7415-7422	13	46
29	Metal selenides for photocatalytic Z-scheme pure water splitting mediated by reduced graphene oxide. *Chinese Journal of Catalysis*, **2019**, 40, 1668-1672	11.3	15
28	Visible-Light-Driven Photocatalytic Z-Scheme Overall Water Splitting in La Ti AgS O -based Powder-Suspension System. *ChemSusChem*, **2019**, 12, 1906-1910	8.3	20
27	Interfacial Engineering of NiMo/Mesoporous TiO2 Catalyst with Carbon for Enhanced Hydrodesulfurization Performance. *Catalysis Letters*, **2018**, 148, 992-1002	2.8	3
26	Plate-like Sm2Ti2S2O5 Particles Prepared by a Flux-Assisted One-Step Synthesis for the Evolution of O2 from Aqueous Solutions by Both Photocatalytic and Photoelectrochemical Reactions. *Journal of Physical Chemistry C*, **2018**, 122, 13492-13499	3.8	9
25	Efficient Redox-Mediator-Free Z-Scheme Water Splitting Employing Oxysulfide Photocatalysts under Visible Light. *ACS Catalysis*, **2018**, 8, 1690-1696	13.1	90
24	Inhibiting competing reactions of iodate/iodide redox mediators by surface modification of photocatalysts to enable Z-scheme overall water splitting. *Applied Catalysis B: Environmental*, **2018**, 224, 579-585	21.8	23
23	Surface Strategies for Particulate Photocatalysts toward Artificial Photosynthesis. *Joule*, **2018**, 2, 2260-2288	27.8	89
22	Overall water splitting by Ta3N5 nanorod single crystals grown on the edges of KTaO3 particles. *Nature Catalysis*, **2018**, 1, 756-763	36.5	259

21	Understanding the effect of partial N3−-to-O2− substitution and H+-to-K+ exchange on photocatalytic water reduction activity of Ruddlesden−Popper layered perovskite KLaTiO4. *Molecular Catalysis*, **2017**, 432, 250-258	3.3	14
20	Particulate photocatalysts for overall water splitting. *Nature Reviews Materials*, **2017**, 2,	73.3	902
19	Achievement of visible-light-driven Z-scheme overall water splitting using barium-modified TaN as a H-evolving photocatalyst. *Chemical Science*, **2017**, 8, 437-443	9.4	81
18	Photoreduced Graphene Oxide as a Conductive Binder to Improve the Water Splitting Activity of Photocatalyst Sheets. *Advanced Functional Materials*, **2016**, 26, 7011-7019	15.6	47
17	Visible Light-Driven Z-Scheme Water Splitting Using Oxysulfide H Evolution Photocatalysts. *Journal of Physical Chemistry Letters*, **2016**, 7, 3892-3896	6.4	78
16	Photocatalyst Sheets Composed of Particulate LaMg1/3Ta2/3O2N and Mo-Doped BiVO4 for Z-Scheme Water Splitting under Visible Light. *ACS Catalysis*, **2016**, 6, 7188-7196	13.1	68
15	Magnesia interface nanolayer modification of Pt/Ta3N5 for promoted photocatalytic hydrogen production under visible light irradiation. *Journal of Catalysis*, **2016**, 339, 77-83	7.3	52
14	Efficient Visible-Light-Driven Z-Scheme Overall Water Splitting Using a MgTa2O6−xNy /TaON Heterostructure Photocatalyst for H2 Evolution. *Angewandte Chemie*, **2015**, 127, 8618-8621	3.6	56
13	Efficient Visible-Light-Driven Z-Scheme Overall Water Splitting Using a MgTa2O(6-x)N(y)/TaON Heterostructure Photocatalyst for H2 Evolution. *Angewandte Chemie - International Edition*, **2015**, 54, 8498-501	16.4	205
12	Interface Engineering of a CoOx/Ta3N5 Photocatalyst for Unprecedented Water Oxidation Performance under Visible-Light-Irradiation. *Angewandte Chemie*, **2015**, 127, 3090-3094	3.6	40
11	Interface engineering of a CoO(x)/Ta3N5 photocatalyst for unprecedented water oxidation performance under visible-light-irradiation. *Angewandte Chemie - International Edition*, **2015**, 54, 3047-51	16.4	219
10	A Tantalum Nitride Photoanode Modified with a Hole-Storage Layer for Highly Stable Solar Water Splitting. *Angewandte Chemie*, **2014**, 126, 7423-7427	3.6	44
9	A wide visible-light-responsive tunneled MgTaO(6-x)N(x) photocatalyst for water oxidation and reduction. *Chemical Communications*, **2014**, 50, 14415-7	5.8	63
8	Recent progress on photocatalysts with wide visible light range absorption for heterogeneous water splitting. *Chinese Journal of Catalysis*, **2014**, 35, 1431-1432	11.3	12
7	A tantalum nitride photoanode modified with a hole-storage layer for highly stable solar water splitting. *Angewandte Chemie - International Edition*, **2014**, 53, 7295-9	16.4	296
6	Nitrogen-doped layered oxide Sr5Ta4O15−xNx for water reduction and oxidation under visible light irradiation. *Journal of Materials Chemistry A*, **2013**, 1, 5651	13	79
5	Preparation and Characterization of Mesoporous MoO3/TiO2 Composite with High Surface Area by Self-Supporting and Ammonia Method. *Catalysis Letters*, **2012**, 142, 480-485	2.8	11
4	Synthesis, Features, and Applications of Mesoporous Titania with TiO2(B). *Chinese Journal of Catalysis*, **2010**, 31, 605-614	11.3	33

3	Highly Crystalline TiO2 Whisker Modified with Pt and Its Photocata-lytic Performance. *Chinese Journal of Catalysis*, **2010**, 31, 1271-1276	11.3	2
2	Oxidation of Carbon Monoxide over a Fibrous Titania-Supported Gold Catalyst. *Chinese Journal of Catalysis*, **2009**, 30, 421-425	11.3	9
1	Cocatalyst engineering of a narrow bandgap Ga-La5Ti2Cu0.9Ag0.1O7S5 photocatalyst towards effectively enhanced water splitting. *Journal of Materials Chemistry A*,	13	1