

Taifeng Liu

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.

39
papers

1,619
citations

18
h-index

40
g-index

44
ext. papers

2,078
ext. citations

8.4
avg, IF

4.89
L-index

#	Paper	IF	Citations
39	Enhancing the photocatalytic activity of defective titania for carbon dioxide photoreduction via surface functionalization. <i>Catalysis Science and Technology</i> , 2022 , 12, 509-518	5.5	0
38	Charge Carrier Transport Mechanism in Ta O , TaON, and Ta N Studied by Applying Polaron Hopping and Bandlike Models.. <i>ChemPhysChem</i> , 2022 , e202100859	3.2	0
37	On a high photocatalytic activity of high-noble alloys Au-Ag/TiO catalysts during oxygen evolution reaction of water oxidation.. <i>Scientific Reports</i> , 2022 , 12, 2604	4.9	3
36	Prediction the photocatalytic water splitting of bismuth vanady1 oxyhalide BiVO3F based on density functional theory. <i>Molecular Catalysis</i> , 2022 , 524, 112244	3.3	
35	Flux-Assisted Synthesis of Prism-like Octahedral Ta3N5 Single-Crystals with Controllable Facets for Promoted Photocatalytic H2 Evolution. <i>Solar Rrl</i> , 2021 , 5, 2000574	7.1	1
34	SrNiWO Double Perovskite Oxide as a Novel Visible-Light-Responsive Water Oxidation Photocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25938-25948	9.5	20
33	Water Oxidation on TiO2: A Comparative DFT Study of 1e ⁻ and 4e ⁻ Processes on Rutile, Anatase, and Brookite. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8094-8100	3.8	13
32	Embedding Sulfur Atoms in Decahedron Bismuth Vanadate Crystals with a Soft Chemical Approach for Expanding the Light Absorption Range. <i>ChemCatChem</i> , 2020 , 12, 1585-1590	5.2	2
31	Theoretical Insight into the Role of Defects and Facets in the Selectivity of Products in Water Oxidation over Bismuth Vanadate (BiVO4). <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1980-1988	8.3	4
30	A Novel Double Perovskite Oxide Semiconductor Sr2CoWO6 as Bifunctional Photocatalyst for Photocatalytic Oxygen and Hydrogen Evolution Reactions from Water under Visible Light Irradiation. <i>Solar Rrl</i> , 2020 , 4, 1900456	7.1	18
29	Hole Polaron Transport in Bismuth Vanadate BiVO4 from Hybrid Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23038-23044	3.8	9
28	Water-stable Mn-based MOF nanosheet as robust visible-light-responsive photocatalyst in aqueous solution. <i>Science China Chemistry</i> , 2020 , 63, 1756-1760	7.9	5
27	Sr2CoTaO6 Double Perovskite Oxide as a Novel Visible-Light-Absorbing Bifunctional Photocatalyst for Photocatalytic Oxygen and Hydrogen Evolution Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14190-14197	8.3	12
26	Highly efficient photocatalytic reduction of CO2 on amine-functionalized Ti-MCM-41 zeolite. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	6
25	Charge carrier transport dynamics in W/Mo-doped BiVO4: first principles-based mesoscale characterization. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3054-3065	13	29
24	Crystallographic-Orientation-Dependent Charge Separation of BiVO4 for Solar Water Oxidation. <i>ACS Energy Letters</i> , 2019 , 4, 825-831	20.1	80
23	Synergistic effect of {101} crystal facet and bulk/surface oxygen vacancy ratio on the photocatalytic hydrogen production of TiO2. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 8109-8120	6.7	24

22	Oxygen Evolution Reaction (OER) on Clean and Oxygen Deficient Low-Index SrTiO ₃ Surfaces: A Theoretical Systematic Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15346-15353	8.3	8
21	Photocatalytic Facet Selectivity in BiVO ₄ Nanoparticles: Polaron Electronic Structure and Thermodynamic Stability Considerations for Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20142-20151	3.8	12
20	Interfacial Construction of Zero-Dimensional/One-Dimensional g-C ₃ N ₄ Nanoparticles/TiO ₂ Nanotube Arrays with Z-Scheme Heterostructure for Improved Photoelectrochemical Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2483-2491	8.3	79
19	Highly efficient photocatalytic reduction of CO ₂ on surface-modified Ti-MCM-41 zeolite. <i>Catalysis Today</i> , 2019 , 335, 221-227	5.3	20
18	Bimodal hole transport in bulk BiVO ₄ from computation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3714-3723	3.7	16
17	Simultaneous two-electron transfer from photoirradiated semiconductor to molecular catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 355, 332-337	4.7	1
16	Species, engineering and characterizations of defects in TiO ₂ -based photocatalyst. <i>Chinese Chemical Letters</i> , 2018 , 29, 671-680	8.1	45
15	Role of Oxygen Vacancies on Oxygen Evolution Reaction Activity: β -Ga ₂ O ₃ as a Case Study. <i>Chemistry of Materials</i> , 2018 , 30, 7714-7726	9.6	25
14	Development of Novel Perovskite-Like Oxide Photocatalyst LiCuTa ₃ O ₉ with Dual Functions of Water Reduction and Oxidation under Visible Light Irradiation. <i>Advanced Energy Materials</i> , 2018 , 8, 1801650	21.8	26
13	A highly selective and stable ZnO-ZrO solid solution catalyst for CO hydrogenation to methanol. <i>Science Advances</i> , 2017 , 3, e1701290	14.3	366
12	Positioning the Water Oxidation Reaction Sites in Plasmonic Photocatalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11771-11778	16.4	222
11	A wide visible light driven complex perovskite Ba(Mg _{1/3} Ta _{2/3})O ₃ Ny photocatalyst for water oxidation and reduction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18870-18877	13	16
10	Unraveling a Single-Step Simultaneous Two-Electron Transfer Process from Semiconductor to Molecular Catalyst in a CoPy/CdS Hybrid System for Photocatalytic H ₂ Evolution under Strong Alkaline Conditions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10726-9	16.4	68
9	Enhancing charge separation on high symmetry SrTiO ₃ exposed with anisotropic facets for photocatalytic water splitting. <i>Energy and Environmental Science</i> , 2016 , 9, 2463-2469	35.4	274
8	Band Structure Engineering: Insights from Defects, Band Gap, and Electron Mobility, from Study of Magnesium Tantalate. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 6930-6937	3.8	24
7	The nature of photogenerated charge separation among different crystal facets of BiVO ₄ studied by density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23503-10	3.6	95
6	Theoretical insight into the roles of cocatalysts in the NiNiO/ β -Ga ₂ O ₃ photocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10309-10319	13	24
5	A Facile Way for Synthesis of High Performance Electron Receptor MCB: A Promising Replacer of PCBM. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014 , 22, 289-298	1.8	4

4	Self-assembly of a tripyrenylboron molecule towards solid sensor for fluoride anions. <i>RSC Advances</i> , 2013 , 3, 9973	3.7	8
3	Electronic logic gates from three-segment nanowires featuring two p-n heterojunctions. <i>NPG Asia Materials</i> , 2013 , 5, e59-e59	10.3	16
2	Tuning Growth of Low-Dimensional Organic Nanostructures for Efficient Optical Waveguide Applications. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14134-14138	3.8	26
1	Synthesis of a Naphthalene-diimide Cyclophane for Tuning Supramolecular Interactions by Metal Ions. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 4287-4292	3.2	15