

Xin Zhao

List of Publications by Year in descending order

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47
papers

2,354
citations

201385

27
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214527

47
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51
all docs

51
docs citations

51
times ranked

3391
citing authors

#	ARTICLE	IF	CITATIONS
1	Upcycling to Sustainably Reuse Plastics. <i>Advanced Materials</i> , 2022, 34, e2100843.	11.1	91
2	Insights into Improving Photoelectrochemical Water Splitting Performance Using Hematite Anode. <i>Energy Technology</i> , 2022, 10, 2100457.	1.8	10
3	In situ optical spectroscopic understanding of electrochemical passivation mechanism on sol-gel processed WO ₃ photoanodes. <i>Journal of Energy Chemistry</i> , 2022, 71, 20-28.	7.1	17
4	Photocatalytic Conversion of Plastic Waste: From Photodegradation to Photosynthesis. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	64
5	Elucidating the sources of activity and stability of FeP electrocatalyst for hydrogen evolution reactions in acidic and alkaline media. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118156.	10.8	74
6	Mechanistic Study of Monolayer NiP ₂ (100) toward Solar Hydrogen Production. <i>Solar Rrl</i> , 2020, 4, 1900360.	3.1	8
7	Colorful superhydrophobic pigments with superior anti-fouling performance and environmental durability. <i>Chemical Engineering Journal</i> , 2020, 384, 123292.	6.6	37
8	First-principles investigation of the electronic properties of the Bi ₂ O ₄ (101)/BiVO ₄ (010) heterojunction towards more efficient solar water splitting. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2449-2456.	1.3	18
9	Sol-gel synthesis of highly reproducible WO ₃ photoanodes for solar water oxidation. <i>Science China Materials</i> , 2020, 63, 2261-2271.	3.5	12
10	Design and durability study of environmental-friendly room-temperature processable icephobic coatings. <i>Chemical Engineering Journal</i> , 2019, 355, 901-909.	6.6	64
11	Catalytically Active Sites on Ni ₅ P ₄ for Efficient Hydrogen Evolution Reaction From Atomic Scale Calculation. <i>Frontiers in Chemistry</i> , 2019, 7, 444.	1.8	15
12	The Self-Passivation Mechanism in Degradation of BiVO ₄ Photoanode. <i>IScience</i> , 2019, 19, 976-985.	1.9	40
13	Completely Solvent-free Protocols to Access Phase-Pure, Metastable Metal Halide Perovskites and Functional Photodetectors from the Precursor Salts. <i>IScience</i> , 2019, 16, 312-325.	1.9	80
14	Strategies of Anode Materials Design towards Improved Photoelectrochemical Water Splitting Efficiency. <i>Coatings</i> , 2019, 9, 309.	1.2	13
15	Stable Active Sites on Ni ₁₂ P ₅ Surfaces for the Hydrogen Evolution Reaction. <i>Energy Technology</i> , 2019, 7, 1900013.	1.8	7
16	Mesoporous SiO ₂ /BiVO ₄ /CuO nanospheres for Z-scheme, visible light aerobic C-N coupling and dehydrogenation. <i>Applied Materials Today</i> , 2019, 15, 192-202.	2.3	30
17	A Source of Error in Photoanode Evaluation. <i>Joule</i> , 2019, 3, 305-310.	11.7	1
18	Probing the Performance Limitations in Thin-Film FeVO ₄ Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9773-9782.	1.5	32

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19	An investigation on the role of W doping in BiVO ₄ photoanodes used for solar water splitting. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13637-13645.	1.3	38
20	Anisotropic Electronic Characteristics, Adsorption, and Stability of Low-Index BiVO ₄ Surfaces for Photoelectrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5475-5484.	4.0	93
21	A theoretical study on the surface and interfacial properties of Ni ₃ P for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7827-7834.	5.2	50
22	Scale-Up of BiVO ₄ Photoanode for Water Splitting in a Photoelectrochemical Cell: Issues and Challenges. <i>Energy Technology</i> , 2018, 6, 100-109.	1.8	49
23	Enhanced Charge Transport and Increased Active Sites on \pm -Fe ₂ O ₃ (110) Nanorod Surface Containing Oxygen Vacancies for Improved Solar Water Oxidation Performance. <i>ACS Omega</i> , 2018, 3, 14973-14980.	1.6	36
24	A Cobalt-Based Metal-Organic Framework as Cocatalyst on BiVO ₄ Photoanode for Enhanced Photoelectrochemical Water Oxidation. <i>ChemSusChem</i> , 2018, 11, 2710-2716.	3.6	70
25	Clarifying the Roles of Oxygen Vacancy in W-Doped BiVO ₄ for Solar Water Splitting. <i>ACS Applied Energy Materials</i> , 2018, 1, 3410-3419.	2.5	77
26	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO ₄ photoanode by W-Ti codoping. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16965-16974.	5.2	27
27	The Influence of Ti Doping on Morphology and Photoelectrochemical Properties of Hematite Grown from Aqueous Solution for Water Splitting. <i>Energy Technology</i> , 2018, 6, 2188-2199.	1.8	18
28	Theoretical Insight into the Mechanism of Photoelectrochemical Oxygen Evolution Reaction on BiVO ₄ Anode with Oxygen Vacancy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18702-18709.	1.5	89
29	New insight into the roles of oxygen vacancies in hematite for solar water splitting. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1074-1082.	1.3	69
30	Enhanced photoelectrochemical water splitting performance using morphology-controlled BiVO ₄ with W doping. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2640-2647.	1.5	19
31	Improved Charge Separation in WO ₃ /CuWO ₄ Composite Photoanodes for Photoelectrochemical Water Oxidation. <i>Materials</i> , 2016, 9, 348.	1.3	36
32	Fast and Simple Construction of Efficient Solar Water Splitting Electrodes with Micrometer-Sized Light-Absorbing Precursor Particles. <i>Advanced Materials Technologies</i> , 2016, 1, 1600119.	3.0	16
33	Enhanced Water Splitting Performance of Perovskite SrTaO ₂ N Photoanode Film through Ameliorating Interparticle Charge Transport. <i>Advanced Functional Materials</i> , 2016, 26, 7156-7163.	7.8	86
34	Enhanced visible light hydrogen production via a multiple heterojunction structure with defect-engineered g-C ₃ N ₄ and two-phase anatase/brookite TiO ₂ . <i>Journal of Catalysis</i> , 2016, 342, 55-62.	3.1	57
35	Photoelectrochemical cell for unassisted overall solar water splitting using a BiVO ₄ photoanode and Si nanoarray photocathode. <i>RSC Advances</i> , 2016, 6, 9905-9910.	1.7	64
36	Charge Carrier Transfer in Ta ₃ N ₅ Photoanodes Prepared by Different Methods for Solar Water Splitting. <i>Australian Journal of Chemistry</i> , 2016, 69, 631.	0.5	2

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37	Quantitative Analysis and Visualized Evidence for High Charge Separation Efficiency in a Solid-Liquid Bulk Heterojunction. <i>Advanced Energy Materials</i> , 2014, 4, 1301785.	10.2	88
38	Cathodic shift of onset potential for water oxidation on a Ti ⁴⁺ -doped Fe ₂ O ₃ photoanode by suppressing the back reaction. <i>Energy and Environmental Science</i> , 2014, 7, 752-759.	15.6	228
39	Enhanced luminescence intensity of Sr ₃ B ₂ O ₆ :Eu ²⁺ phosphor prepared by sol-gel method. <i>Journal of Alloys and Compounds</i> , 2013, 579, 432-437.	2.8	20
40	A Co-catalyst-Loaded Ta ₃ N ₅ Photoanode with a High Solar Photocurrent for Water Splitting upon Facile Removal of the Surface Layer. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11016-11020.	7.2	208
41	Efficient red phosphor double-perovskite Ca ₃ WO ₆ with A-site substitution of Eu ³⁺ . <i>Dalton Transactions</i> , 2013, 42, 13502.	1.6	39
42	Formation energy and photoelectrochemical properties of BiVO ₄ after doping at Bi ³⁺ or V ⁵⁺ sites with higher valence metal ions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1006-1013.	1.3	138
43	Tunable orange red phosphors: S ²⁻ -doped high temperature phase Ca ₃ SiO ₄ Cl ₂ :Eu ²⁺ for solid-state lighting. <i>RSC Advances</i> , 2013, 3, 1965-1969.	1.7	12
44	An efficient charge compensated red phosphor Sr ₃ WO ₆ : K ⁺ , Eu ³⁺ For white LEDs. <i>Journal of Alloys and Compounds</i> , 2013, 553, 221-224.	2.8	50
45	A dye-free photoelectrochemical solar cell based on BiVO ₄ with a long lifetime of photogenerated carriers. <i>Electrochemistry Communications</i> , 2012, 22, 49-52.	2.3	21
46	Remarkable enhancement in photocurrent of In _{0.20} Ga _{0.80} N photoanode by using an electrochemical surface treatment. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	27
47	The Self-Passivation Mechanism in Degradation of BiVO ₄ Photoanode. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0