Xu Zong

List of Publications by Year in descending order

77 papers	8,345 citations	53751 45 h-index	71651 76 g-index
79 all docs	79 docs citations	79 times ranked	9895 citing authors

#	Article	IF	Citations
1	Enhancement of Photocatalytic H₂ Evolution on CdS by Loading MoS₂ as Cocatalyst under Visible Light Irradiation. Journal of the American Chemical Society, 2008, 130, 7176-7177.	6.6	1,752
2	Visible-light-driven hydrogen production with extremely high quantum efficiency on Ptâ€“PdS/CdS photocatalyst. Journal of Catalysis, 2009, 266, 165-168.	3.1	1,039
3	Photocatalytic H₂ Evolution on MoS₂/CdS Catalysts under Visible Light Irradiation. Journal of Physical Chemistry C, 2010, 114, 1963-1968.	1.5	381
4	Photocatalytic H₂ Evolution on CdS Loaded with WS₂ as Cocatalyst under Visible Light Irradiation. Journal of Physical Chemistry C, 2011, 115, 12202-12208.	1.5	376
5	Photocatalytic Water Oxidation on BiVO₄ with the Electrocatalyst as an Oxidation Cocatalyst: Essential Relations between Electrocatalyst and Photocatalyst. Journal of Physical Chemistry C, 2012, 116, 5082-5089.	1.5	360
6	Crystal Facet Dependence of Water Oxidation on BiVO₄Sheets under Visible Light Irradiation. Chemistry - A European Journal, 2011, 17, 1275-1282.	1.7	351
7	Dynamic Interaction between Methylammonium Lead Iodide and TiO₂ Nanocrystals Leads to Enhanced Photocatalytic H₂ Evolution from HI Splitting. ACS Energy Letters, 2018, 3, 1159-1164.	8.8	147
8	Activation of Photocatalytic Water Oxidation on N-Doped ZnO Bundle-like Nanoparticles under Visible Light. Journal of Physical Chemistry C, 2013, 117, 4937-4942.	1.5	143
9	Direct splitting of H2S into H2 and S on CdS-based photocatalyst under visible light irradiation. Journal of Catalysis, 2008, 260, 134-140.	3.1	140
10	H2 production with ultra-low CO selectivity via photocatalytic reforming of methanol on Au/TiO2 catalyst. International Journal of Hydrogen Energy, 2008, 33, 1243-1251.	3.8	139
11	Understanding the anataseâ€“rutile phase junction in charge separation and transfer in a TiO₂ electrode for photoelectrochemical water splitting. Chemical Science, 2016, 7, 6076-6082.	3.7	138
12	Promoting Photocatalytic H₂ Evolution on Organicâ€“Inorganic Hybrid Perovskite Nanocrystals by Simultaneous Dual-Charge Transportation Modulation. ACS Energy Letters, 2019, 4, 40-47.	8.8	127
13	Binary Fe, Cu-doped bamboo-like carbon nanotubes as efficient catalyst for the oxygen reduction reaction. Nano Energy, 2017, 37, 187-194.	8.2	125
14	Amorphous Multi-elements Electrocatalysts with Tunable Bifunctionality toward Overall Water Splitting. ACS Catalysis, 2018, 8, 9926-9935.	5.5	121
15	Integrating a dual-silicon photoelectrochemical cell into a redox flow battery for unassisted photocharging. Nature Communications, 2016, 7, 11474.	5.8	120
16	Visible light driven H2 production in molecular systems employing colloidal MoS2 nanoparticles as catalyst. Chemical Communications, 2009, , 4536.	2.2	116
17	Low-temperature synthesis of CdS/TiO2 composite photocatalysts: Influence of synthetic procedure on photocatalytic activity under visible light. Journal of Molecular Catalysis A, 2012, 356, 53-60.	4.8	114
18	A Sandwichâ€Like Organolead Halide Perovskite Photocathode for Efficient and Durable Photoelectrochemical Hydrogen Evolution in Water. Advanced Energy Materials, 2018, 8, 1800795.	10.2	106

#	Article	IF	Citations
19	Photocatalytic H2 production on hybrid catalyst system composed of inorganic semiconductor and cobaloximes catalysts. Journal of Catalysis, 2011, 281, 318-324.	3.1	102
20	Cu₂O/CuO photocathode with improved stability for photoelectrochemical water reduction. RSC Advances, 2015, 5, 10790-10794.	1.7	94
21	Photocatalytic H₂production on Pt/TiO₂â€“SO₄^{2â^'}with tuned surface-phase structures: enhancing activity and reducing CO formation. Energy and Environmental Science, 2012, 5, 6345-6351.	15.6	89
22	On the engineering part of solar hydrogen production from water splitting: Photoreactor design. Chemical Engineering Science, 2013, 104, 125-146.	1.9	87
23	A new type of carbon nitride-based polymer composite for enhanced photocatalytic hydrogen production. Chemical Communications, 2014, 50, 6762-6764.	2.2	86
24	Cubic CeO2 nanoparticles as mirror-like scattering layers for efficient light harvesting in dye-sensitized solar cells. Chemical Communications, 2012, 48, 7386.	2.2	83
25	An Integrated Photoelectrochemicalâ€“Chemical Loop for Solarâ€Driven Overall Splitting of Hydrogen Sulfide. Angewandte Chemie - International Edition, 2014, 53, 4399-4403.	7.2	79
26	Scalable Lowâ€Cost SnS₂ Nanosheets as Counter Electrode Building Blocks for Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2014, 20, 8670-8676.	1.7	78
27	Photoâ€“thermo Catalytic Oxidation over a TiO₂â€WO₃â€Supported Platinum Catalyst. Angewandte Chemie - International Edition, 2020, 59, 12909-12916.	7.2	75
28	Photocatalytic water oxidation on F, N co-doped TiO2 with dominant exposed {001} facets under visible light. Chemical Communications, 2011, 47, 11742.	2.2	73
29	Boosting the efficiency of quantum dot sensitized solar cells up to 7.11% through simultaneous engineering of photocathode and photoanode. Nano Energy, 2015, 13, 609-619.	8.2	72
30	An artificial photosynthetic system containing an inorganic semiconductor and a molecular catalyst for photocatalytic water oxidation. Journal of Catalysis, 2016, 338, 168-173.	3.1	66
31	Metal phosphide catalysts anchored on metal-caged graphitic carbon towards efficient and durable hydrogen evolution electrocatalysis. Nano Energy, 2018, 48, 500-509.	8.2	66
32	Oxygen vacancy engineering with flame heating approach towards enhanced photoelectrochemical water oxidation on WO3 photoanode. Nano Energy, 2020, 77, 105190.	8.2	65
33	H2 production with low CO selectivity from photocatalytic reforming of glucose on metal/TiO2 catalysts. Science in China Series B: Chemistry, 2008, 51, 97-100.	0.8	64
34	Ion-exchangeable semiconductor materials for visible light-induced photocatalysis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2014, 18, 32-49.	5.6	64
35	Hydrothermal Synthesis of a Crystalline Rutile TiO₂ Nanorod Based Network for Efficient Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2013, 19, 13569-13574.	1.7	62
36	Photocatalytic hydrogen production in a noble-metal-free system catalyzed by in situ grown molybdenum sulfide catalyst. Journal of Catalysis, 2014, 310, 51-56.	3.1	62

#	Article	IF	Citations
37	Nitrogen doping in ion-exchangeable layered tantalate towards visible-light induced water oxidation. Chemical Communications, 2011, 47, 6293.	2.2	59
38	Selective production of hydrogen peroxide and oxidation of hydrogen sulfide in an unbiased solar photoelectrochemical cell. Energy and Environmental Science, 2014, 7, 3347-3351.	15.6	57
39	Moistureâ€Assisted Preparation of Compact GaN:ZnO Photoanode Toward Efficient Photoelectrochemical Water Oxidation. Advanced Energy Materials, 2016, 6, 1600864.	10.2	54
40	Suppressing CO formation by anion adsorption and Pt deposition on TiO2 in H2 production from photocatalytic reforming of methanol. Journal of Catalysis, 2008, 253, 225-227.	3.1	49
41	Spatially Separated Photosystem II and a Silicon Photoelectrochemical Cell for Overall Water Splitting: A Naturalâ€"Artificial Photosynthetic Hybrid. Angewandte Chemie - International Edition, 2016, 55, 9229-9233.	7.2	49
42	Mechanistic Understanding of Efficient Photocatalytic H₂ Evolution on Twoâ€Dimensional Layered Lead Iodide Hybrid Perovskites. Angewandte Chemie - International Edition, 2021, 60, 7376-7381.	7.2	48
43	Carbonâ€doped Titania Hollow Spheres with Tunable Hierarchical Macroporous Channels and Enhanced Visible Lightâ€induced Photocatalytic Activity. ChemCatChem, 2012, 4, 488-491.	1.8	46
44	A scalable colloidal approach to prepare hematite films for efficient solar water splitting. Physical Chemistry Chemical Physics, 2013, 15, 12314.	1.3	46
45	Achieving Simultaneous CO₂ and H₂S Conversion via a Coupled Solarâ€Driven Electrochemical Approach on Nonâ€Preciousâ€Metal Catalysts. Angewandte Chemie - International Edition, 2018, 57, 3473-3477.	7.2	46
46	Step-wise controlled growth of metal@TiO₂coreâ€"shells with plasmonic hot spots and their photocatalytic properties. Journal of Materials Chemistry A, 2014, 2, 12776.	5.2	45
47	Carbon Encapsulation of Organicâ€"Inorganic Hybrid Perovskite toward Efficient and Stable Photoâ€Electrochemical Carbon Dioxide Reduction. Advanced Energy Materials, 2020, 10, 2002105.	10.2	44
48	Roles of cocatalysts in semiconductor-based photocatalytic hydrogen production. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110430.	1.6	43
49	A hematite photoanode with gradient structure shows an unprecedentedly low onset potential for photoelectrochemical water oxidation. Physical Chemistry Chemical Physics, 2014, 16, 23544-23548.	1.3	41
50	Organicâ"inorganic hybrid perovskites: Game-changing candidates for solar fuel production. Nano Energy, 2020, 71, 104647.	8.2	41
51	Integrating Perovskite Photovoltaics and Noble-Metal-Free Catalysts toward Efficient Solar Energy Conversion and H₂S Splitting. ACS Catalysis, 2016, 6, 6198-6206.	5.5	40
52	Boosting Electrochemical Water Oxidation on NiFe (oxy) Hydroxides by Constructing Schottky Junction toward Water Electrolysis under Industrial Conditions. Small, 2022, 18, e2105544.	5.2	38
53	Functions in cooperation for enhanced oxygen reduction reaction: the independent roles of oxygen and nitrogen sites in metal-free nanocarbon and their functional synergy. Journal of Materials Chemistry A, 2017, 5, 3239-3248.	5.2	37
54	Promoting Charge Separation and Injection by Optimizing the Interfaces of GaN:ZnO Photoanode for Efficient Solar Water Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 30696-30702.	4.0	34

#	Article	IF	Citations
55	Facile one-pot synthesis of Eu, N-codoped mesoporous titania microspheres with yolk-shell structure and high visible-light induced photocatalytic performance. Applied Catalysis A: General, 2012, 435-436, 86-92.	2.2	33
56	An nâ€Type to pâ€Type Switchable Photoelectrode Assembled from Alternating Exfoliated Titania Nanosheets and Polyaniline Layers. Angewandte Chemie - International Edition, 2013, 52, 6400-6403.	7.2	32
57	Photocatalytic Splitting of H2S to Produce Hydrogen by Gas-Solid Phase Reaction. Chinese Journal of Catalysis, 2008, 29, 313-315.	6.9	28
58	Ordered mesoporous tungsten oxide and titanium oxide composites and their photocatalytic degradation behavior. Progress in Natural Science: Materials International, 2012, 22, 654-660.	1.8	25
59	High-Performance Solar Redox Flow Battery toward Efficient Overall Splitting of Hydrogen Sulfide. ACS Energy Letters, 2020, 5, 597-603.	8.8	25
60	A nanohybrid of CdTe@CdS nanocrystals and titania nanosheets with pâ€“n nanojunctions for improved visible light-driven hydrogen production. Catalysis Today, 2016, 264, 229-235.	2.2	24
61	Energetic requirements of iridium(<scp>iii</scp>) complex based photosensitisers in photocatalytic hydrogen generation. Physical Chemistry Chemical Physics, 2014, 16, 21577-21585.	1.3	17
62	Nanohybrid materials of titania nanosheets and plasmonic gold nanoparticles for effective hydrogen evolution. Applied Catalysis A: General, 2016, 521, 96-103.	2.2	16
63	Decorating mesoporous silicon with amorphous metalâ€“phosphorous-derived nanocatalysts towards enhanced photoelectrochemical water reduction. Journal of Materials Chemistry A, 2016, 4, 14960-14967.	5.2	16
64	Reducing the surface defects of Ta₃N₅ photoanode towards enhanced photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2020, 8, 23274-23283.	5.2	16
65	Spatially Separated Photosystem II and a Silicon Photoelectrochemical Cell for Overall Water Splitting: A Naturalâ€“Artificial Photosynthetic Hybrid. Angewandte Chemie, 2016, 128, 9375-9379.	1.6	15
66	Photocatalytic water splitting on metal oxide-based semiconductor photocatalysts. , 2018, , 355-399.		12
67	Achieving Simultaneous CO₂ and H₂S Conversion via a Coupled Solarâ€Driven Electrochemical Approach on Nonâ€Preciousâ€Metal Catalysts. Angewandte Chemie, 2018, 130, 3531-3535.	1.6	9
68	Establishing inorganic-biological hybrid photoelectrochemical platform towards sustainable conversion of Î±-chitin. Applied Catalysis B: Environmental, 2020, 265, 118558.	10.8	9
69	Mechanistic Understanding of Efficient Photocatalytic H₂ Evolution on Twoâ€Dimensional Layered Lead Iodide Hybrid Perovskites. Angewandte Chemie, 2021, 133, 7452-7457.	1.6	9
70	Low temperature synthesis of visible light responsive rutile TiO2 nanorods from TiC precursor. Frontiers of Chemical Science and Engineering, 2012, 6, 53-57.	2.3	7
71	A new Pb(<scp>iv</scp>)-based photocathode material Sr₂PbO₄with good light harvesting ability. Journal of Materials Chemistry A, 2015, 3, 12051-12058.	5.2	5
72	Fabrication of a Robust Tantalum Nitride Photoanode from a Flameâ€Heatingâ€Derived Compact Oxide Film. ChemPhotoChem, 2018, 2, 249-256.	1.5	5

#	Article	IF	Citations
73	Designing a Z-scheme system based on photocatalyst panels towards separated hydrogen and oxygen production from overall water splitting. Catalysis Science and Technology, 2022, 12, 572-578.	2.1	4
74	Shallow Oxygen Substitution Defect to Deeper Defect Transformation Mechanism in Ta₃N₅ under Light Irradiation. Journal of Physical Chemistry Letters, 2021, 12, 3698-3704.	2.1	3
75	Nonmetal Doping in TiO2 Toward Visible-Light-Induced Photocatalysis. Handbook of Environmental Chemistry, 2013, , 87-113.	0.2	2
76	An nâ€Type to pâ€Type Switchable Photoelectrode Assembled from Alternating Exfoliated Titania Nanosheets and Polyaniline Layers. Angewandte Chemie, 2013, 125, 6528-6531.	1.6	2
77	New layered semiconductors for efficient photoelectrochemical hydrogen and oxygen generation. , 2011, , .		0