Shuang Cao

List of Publications by Year
in descending order

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32	2,718	236925 25	395702 33
papers	citations	h-index	g-index

34	34	34	3677
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectacular photocatalytic hydrogen evolution using metal-phosphide/CdS hybrid catalysts under sunlight irradiation. Chemical Communications, 2015, 51, 8708-8711.	4.1	210
2	Nanostructured Ni₂P as a Robust Catalyst for the Hydrolytic Dehydrogenation of Ammoniaâ€“Borane. Angewandte Chemie - International Edition, 2015, 54, 15725-15729.	13.8	204
3	Ultrafine CoP Nanoparticles Supported on Carbon Nanotubes as Highly Active Electrocatalyst for Both Oxygen and Hydrogen Evolution in Basic Media. ACS Applied Materials & Interfaces, 2015, 7, 28412-28419.	8.0	187
4	Highly efficient photocatalytic hydrogen evolution by nickel phosphide nanoparticles from aqueous solution. Chemical Communications, 2014, 50, 10427.	4.1	175
5	Cobalt phosphide as a highly active non-precious metal cocatalyst for photocatalytic hydrogen production under visible light irradiation. Journal of Materials Chemistry A, 2015, 3, 6096-6101.	10.3	161
6	Metal Phosphides as Coâ€Catalysts for Photocatalytic and Photoelectrocatalytic Water Splitting. ChemSusChem, 2017, 10, 4306-4323.	6.8	150
7	Recent progress for hydrogen production by photocatalytic natural or simulated seawater splitting. Nano Research, 2020, 13, 2313-2322.	10.4	148
8	Considerations for a More Accurate Evaluation Method for Photocatalytic Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 18312-18320.	13.8	141
9	Incorporation of a [Ru(dcbpy)(bpy)₂]²⁺ photosensitizer and a Pt(dcbpy)Cl₂ catalyst into metalâ€“organic frameworks for photocatalytic hydrogen evolution from aqueous solution. Journal of Materials Chemistry A, 2015, 3, 10386-10394.	10.3	131
10	Emerging Photocatalysts for Hydrogen Evolution. Trends in Chemistry, 2020, 2, 57-70.	8.5	131
11	Ultrasmall CoP Nanoparticles as Efficient Cocatalysts for Photocatalytic Formic Acid Dehydrogenation. Joule, 2018, 2, 549-557.	24.0	126
12	Photocatalytic pure water splitting with high efficiency and value by Pt/porous brookite TiO2 nanoflutes. Nano Energy, 2020, 67, 104287.	16.0	124
13	Robustly photogenerating H2 in water using FeP/CdS catalyst under solar irradiation. Scientific Reports, 2016, 6, 19846.	3.3	94
14	A highly efficient photocatalytic H 2 evolution system using colloidal CdS nanorods and nickel nanoparticles in water under visible light irradiation. Applied Catalysis B: Environmental, 2015, 162, 381-391.	20.2	76
15	Simultaneous hydrogen and peroxide production by photocatalytic water splitting. Chinese Journal of Catalysis, 2019, 40, 470-475.	14.0	66
16	Highly selective oxidation of sulfides on a CdS/C₃N₄ catalyst with dioxygen under visible-light irradiation. Catalysis Science and Technology, 2017, 7, 587-595.	4.1	58
17	Tunable Multicolor Phosphorescence of Crystalline Polymeric Complex Salts with Metallophilic Backbones. Angewandte Chemie - International Edition, 2018, 57, 6279-6283.	13.8	57
18	Enhanced photocatalytic H₂-evolution by immobilizing CdS nanocrystals on ultrathin Co_{0.85}Se/RGOâ€“PEI nanosheets. Journal of Materials Chemistry A, 2015, 3, 18711-18717.	10.3	51

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19	The effect of directed photogenerated carrier separation on photocatalytic hydrogen production. Nano Energy, 2017, 41, 488-493.	16.0	51
20	A stable dual-functional system of visible-light-driven Ni(ii) reduction to a nickel nanoparticle catalyst and robust in situ hydrogen production. Chemical Communications, 2013, 49, 11251.	4.1	48
21	Photocatalytic hydrogen production from seawater under full solar spectrum without sacrificial reagents using TiO2 nanoparticles. Nano Research, 2022, 15, 2013-2022.	10.4	43
22	What is the predominant electron transfer process for Au NRs/TiO2 nanodumbbell heterostructure under sunlight irradiation?. Applied Catalysis B: Environmental, 2018, 220, 471-476.	20.2	42
23	Effect of aspect ratios of rutile TiO₂ nanorods on overall photocatalytic water splitting performance. Nanoscale, 2020, 12, 4895-4902.	5.6	36
24	A Ni₂P modified Ti⁴⁺ doped Fe₂O₃ photoanode for efficient solar water oxidation by promoting hole injection. Dalton Transactions, 2017, 46, 10549-10552.	3.3	30
25	Water as a cocatalyst for photocatalytic H2 production from formic acid. Nano Today, 2020, 35, 100968.	11.9	23
26	Considerations for a More Accurate Evaluation Method for Photocatalytic Water Splitting. Angewandte Chemie, 2020, 132, 18468-18476.	2.0	22
27	Controllable synthesis of Au-TiO2 nanodumbbell photocatalysts with spatial redox region. Chinese Journal of Catalysis, 2020, 41, 219-226.	14.0	21
28	Visible light driven photo-reduction of Cu2+ to Cu2O to Cu in water for photocatalytic hydrogen production. RSC Advances, 2020, 10, 5930-5937.	3.6	21
29	Tunable Multicolor Phosphorescence of Crystalline Polymeric Complex Salts with Metallophilic Backbones. Angewandte Chemie, 2018, 130, 6387-6391.	2.0	19
30	Polymerization pyrolysis derived self-supported Mo-Ni-O electrocatalyst for oxygen evolution. Catalysis Today, 2019, 330, 246-251.	4.4	13
31	Mesoporous TiO2 mixed crystals for photocatalytic pure water splitting. Science China Materials, 2020, 63, 758-768.	6.3	11
32	Metal Phosphides as Co-Catalysts for Photocatalytic and Photoelectrocatalytic Water Splitting. ChemSusChem, 2017, 10, 4227-4227.	6.8	4