Hua Xu

List of Publications by Year
in descending order

49 papers	5,123 citations	147726 31 h-index	206029 48 g-index
51 all docs	51 docs citations	51 times ranked	7522 citing authors

#	Article	IF	Citations
1	Reduced TiO2 nanotube arrays for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2013, 1, 5766.	5.2	507
2	Nanometals for Solarâ€toâ€Chemical Energy Conversion: From Semiconductorâ€Based Photocatalysis to Plasmonâ€Mediated Photocatalysis and Photoâ€Thermocatalysis. Advanced Materials, 2016, 28, 6781-6803.	11.1	471
3	Recent advances in TiO₂-based photocatalysis. Journal of Materials Chemistry A, 2014, 2, 12642.	5.2	418
4	Constructing Solidâ€“Gas-Interfacial Fenton Reaction over Alkalinized-C₃N₄ Photocatalyst To Achieve Apparent Quantum Yield of 49% at 420 nm. Journal of the American Chemical Society, 2016, 138, 13289-13297.	6.6	364
5	Metalâ€“organic frameworks for photocatalysis. Physical Chemistry Chemical Physics, 2016, 18, 7563-7572.	1.3	304
6	Anatase TiO₂ Single Crystals Exposed with High-Reactive {111} Facets Toward Efficient H₂ Evolution. Chemistry of Materials, 2013, 25, 405-411.	3.2	248
7	In situ surface alkalinized g-C₃N₄ toward enhancement of photocatalytic H₂ evolution under visible-light irradiation. Journal of Materials Chemistry A, 2016, 4, 2943-2950.	5.2	247
8	High-Active Anatase TiO₂ Nanosheets Exposed with 95% {100} Facets Toward Efficient H₂ Evolution and CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2013, 5, 1348-1354.	4.0	203
9	Targeting Activation of CO₂ and H₂ over Ruâ€Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO₂ Methanation in Flowâ€Type System. Advanced Energy Materials, 2017, 7, 1601657.	10.2	193
10	Co-ZIF-9/TiO₂ nanostructure for superior CO₂ photoreduction activity. Journal of Materials Chemistry A, 2016, 4, 15126-15133.	5.2	180
11	Selective preparation of nanorods and micro-octahedrons of Fe2O3 and their catalytic performances for thermal decomposition of ammonium perchlorate. Powder Technology, 2008, 185, 176-180.	2.1	172
12	Controllable One-Pot Synthesis and Enhanced Photocatalytic Activity of Mixed-Phase TiO₂ Nanocrystals with Tunable Brookite/Rutile Ratios. Journal of Physical Chemistry C, 2009, 113, 1785-1790.	1.5	154
13	A General Approach to Porous Crystalline TiO2, SrTiO3, and BaTiO3Spheres. Journal of Physical Chemistry B, 2006, 110, 13835-13840.	1.2	128
14	Theoretical design of highly active SrTiO3-based photocatalysts by a codoping scheme towards solar energy utilization for hydrogen production. Journal of Materials Chemistry A, 2013, 1, 4221.	5.2	106
15	Constructing cubicâ€“orthorhombic surface-phase junctions of NaNbO₃ towards significant enhancement of CO₂ photoreduction. Journal of Materials Chemistry A, 2014, 2, 5606-5609.	5.2	93
16	TiO2@CdS coreâ€“shell nanorods films: Fabrication and dramatically enhanced photoelectrochemical properties. Electrochemistry Communications, 2007, 9, 354-360.	2.3	92
17	Porous-structured Cu₂O/TiO₂ nanojunction material toward efficient CO₂ photoreduction. Nanotechnology, 2014, 25, 165402.	1.3	86
18	Size-Dependent Mieâ€™s Scattering Effect on TiO₂ Spheres for the Superior Photoactivity of H₂ Evolution. Journal of Physical Chemistry C, 2012, 116, 3833-3839.	1.5	84

#	Article	IF	Citations
19	Microstructure Induced Thermodynamic and Kinetic Modulation to Enhance CO₂ Photothermal Reduction: A Case of Atomic-Scale Dispersed Coâ€“N Species Anchored Co@C Hybrid. ACS Catalysis, 2020, 10, 4726-4736.	5.5	84
20	Hierarchical chlorine-doped rutile TiO2 spherical clusters of nanorods: Large-scale synthesis and high photocatalytic activity. Journal of Solid State Chemistry, 2008, 181, 2516-2522.	1.4	80
21	Synergistic effect of Au and Rh on SrTiO₃in significantly promoting visible-light-driven syngas production from CO₂and H₂O. Chemical Communications, 2016, 52, 5989-5992.	2.2	78
22	Solarâ€Driven Waterâ€“Gas Shift Reaction over CuO_x/Al₂O₃ with 1.1â€‰% of Lightâ€toâ€Energy Storage. Angewandte Chemie - International Edition, 2019, 58, 7708-7712.	7.2	78
23	Selective Nonaqueous Synthesis of Câ€'Cl-Codoped TiO₂ with Visible-Light Photocatalytic Activity. Journal of Physical Chemistry C, 2010, 114, 11534-11541.	1.5	77
24	Generalized Low-Temperature Synthesis of Nanocrystalline Rare-Earth Orthoferrites LnFeO₃ (Ln = La, Pr, Nd, Sm, Eu, Gd). Crystal Growth and Design, 2008, 8, 2061-2065.	1.4	74
25	A General Soft Interface Platform for the Growth and Assembly of Hierarchical Rutile TiO2Nanorods Spheres. Crystal Growth and Design, 2007, 7, 1216-1219.	1.4	59
26	Photocatalytic reactivity of {121} and {211} facets of brookite TiO₂ crystals. Journal of Materials Chemistry A, 2015, 3, 2331-2337.	5.2	54
27	Bifunctional-Nanotemplate Assisted Synthesis of Nanoporous SrTiO₃ Photocatalysts Toward Efficient Degradation of Organic Pollutant. ACS Applied Materials & Interfaces, 2014, 6, 22726-22732.	4.0	50
28	Fabricating a Au@TiO₂ Plasmonic System To Elucidate Alkali-Induced Enhancement of Photocatalytic H₂ Evolution: Surface Potential Shift or Methanol Oxidation Acceleration?. ACS Catalysis, 2018, 8, 4266-4277.	5.5	46
29	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. Advanced Functional Materials, 2019, 29, 1901024.	7.8	44
30	Designing Au Surface-Modified Nanoporous-Single-Crystalline SrTiO₃ to Optimize Diffusion of Surface Plasmon Resonance-Induce Photoelectron toward Enhanced Visible-Light Photoactivity. ACS Applied Materials & Interfaces, 2016, 8, 9506-9513.	4.0	42
31	Controllable One-Pot Synthesis and Enhanced Visible Light Photocatalytic Activity of Tunable Câ€'Cl-Codoped TiO₂Nanocrystals with High Surface Area. Journal of Physical Chemistry C, 2010, 114, 940-946.	1.5	40
32	Surfactant-Free Synthesis of Single Crystalline SnS₂and Effect of Surface Atomic Structure on the Photocatalytic Property. International Journal of Photoenergy, 2014, 2014, 1-7.	1.4	31
33	Selective synthesis of TiO2 nanocrystals with morphology control with the microwave-solvothermal method. CrystEngComm, 2014, 16, 1817.	1.3	27
34	Effective mineralization of organic dye under visible-light irradiation over electronic-structure-modulated Sn(Nb 1â€'x Ta x) 2 O 6 solid solutions. Applied Catalysis B: Environmental, 2015, 168-169, 243-249.	10.8	23
35	Cu-Based mixed metal oxides for an efficient photothermal catalysis of the water-gas shift reaction. Catalysis Science and Technology, 2019, 9, 2125-2131.	2.1	21
36	Nonhydrolytic Route to Boronâ€Doped TiO₂ Nanocrystals. European Journal of Inorganic Chemistry, 2013, 2013, 364-374.	1.0	19

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37	Coupling of Cu Catalyst and Phosphonated Ru Complex Light Absorber with TiO2 as Bridge to Achieve Superior Visible Light CO2 Photoreduction. Transactions of Tianjin University, 2020, 26, 470-478.	3.3	19
38	Light-driven low-temperature syngas production from CH₃OH and H₂O over a Pt@SrTiO₃ photothermal catalyst. Catalysis Science and Technology, 2018, 8, 2515-2518.	2.1	18
39	Synthesis, Characterization, and Photocatalytic Activity of g-C₃N₄/KTaO₃Composites under Visible Light Irradiation. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	17
40	Solarâ€Driven Waterâ€“Gas Shift Reaction over CuO x /Al 2 O 3 with 1.1â€‰% of Lightâ€toâ€Energy Storage. Angewandte Chemie, 2019, 131, 7790-7794.	1.6	17
41	Controllable One-Pot Synthesis of Anatase TiO2 Nanorods with the Microwave-Solvothermal Method. Science of Advanced Materials, 2014, 6, 1668-1675.	0.1	15
42	Mesoporous TiO₂/Zn₂Ti₃O₈ hybrid films synthesized by polymeric micelle assembly. Chemical Communications, 2015, 51, 14582-14585.	2.2	14
43	Effect of band structure on the hot-electron transfer over Au photosensitized brookite TiO₂. Physical Chemistry Chemical Physics, 2016, 18, 3409-3412.	1.3	14
44	Response to Comment on â€œHigh-Active Anatase TiO₂ Nanosheets Exposed with 95% {100} Facets Toward Efficient H₂ Evolution and CO₂ Photoreductionâ€• ACS Applied Materials & Interfaces, 2013, 5, 8262-8262.	4.0	11
45	Efficient photodegradation of 2-chloro-4-nitrophenol over Fe-doped BiOCl nanosheets with oxygen vacancy. Catalysis Science and Technology, 0, , .	2.1	9
46	Photothermal Catalysis: Targeting Activation of CO₂ and H₂ over Ruâ€Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO₂ Methanation in Flowâ€Type System (Adv. Energy Mater. 5/2017). Advanced Energy Materials, 2017, 7, .	10.2	5
47	Structure, Optical Properties, and Photocatalytic Activity towards H₂Generation and CO₂Reduction of GaN Nanowires via Vapor-Liquid-Solid Process. International Journal of Photoenergy, 2014, 2014, 1-6.	1.4	3
48	Synergetic modulation of surface alkali and oxygen vacancy over SrTiO3 for the CO2 photodissociation. Nanotechnology, 2022, 33, 085401.	1.3	3
49	CHAPTER 11. New Materials for Degradation of Organics. RSC Energy and Environment Series, 2016, , 252-294.	0.2	1