

# Hua Xu

## List of Publications by Citations

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48  
papers

4,172  
citations

31  
h-index

51  
g-index

51  
ext. papers

4,676  
ext. citations

8.1  
avg, IF

5.61  
L-index

#	Paper	IF	Citations
48	Reduced TiO <sub>2</sub> nanotube arrays for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5766	13	429
47	Recent advances in TiO <sub>2</sub> -based photocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12642	13	371
46	Nanometals for Solar-to-Chemical Energy Conversion: From Semiconductor-Based Photocatalysis to Plasmon-Mediated Photocatalysis and Photo-Thermocatalysis. <i>Advanced Materials</i> , <b>2016</b> , 28, 6781-8034	3.4	322
45	Constructing Solid-Gas-Interfacial Fenton Reaction over Alkalinized-CN Photocatalyst To Achieve Apparent Quantum Yield of 49% at 420 nm. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 13289-13297	16.4	294
44	Metal-organic frameworks for photocatalysis. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7563-72	3.6	244
43	Anatase TiO <sub>2</sub> Single Crystals Exposed with High-Reactive {111} Facets Toward Efficient H <sub>2</sub> Evolution. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 405-411	9.6	222
42	In situ surface alkalinized g-C <sub>3</sub> N <sub>4</sub> toward enhancement of photocatalytic H <sub>2</sub> evolution under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2943-2950	13	191
41	High-active anatase TiO <sub>2</sub> nanosheets exposed with 95% {100} facets toward efficient H <sub>2</sub> evolution and CO <sub>2</sub> photoreduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1348-54	9.5	184
40	Controllable One-Pot Synthesis and Enhanced Photocatalytic Activity of Mixed-Phase TiO <sub>2</sub> Nanocrystals with Tunable Brookite/Rutile Ratios. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 1785-1790	3.8	142
39	Selective preparation of nanorods and micro-octahedrons of Fe <sub>2</sub> O <sub>3</sub> and their catalytic performances for thermal decomposition of ammonium perchlorate. <i>Powder Technology</i> , <b>2008</b> , 185, 176-180	5.2	140
38	Targeting Activation of CO <sub>2</sub> and H <sub>2</sub> over Ru-Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO <sub>2</sub> Methanation in Flow-Type System. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601657	21.8	134
37	Co-ZIF-9/TiO <sub>2</sub> nanostructure for superior CO <sub>2</sub> photoreduction activity. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15126-15133	13	125
36	A general approach to porous crystalline TiO <sub>2</sub> , SrTiO <sub>3</sub> , and BaTiO <sub>3</sub> spheres. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 13835-40	3.4	121
35	Theoretical design of highly active SrTiO <sub>3</sub> -based photocatalysts by a codoping scheme towards solar energy utilization for hydrogen production. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4221	13	87
34	TiO <sub>2</sub> @CdS core-shell nanorods films: Fabrication and dramatically enhanced photoelectrochemical properties. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 354-360	5.1	85
33	Constructing cubic-orthorhombic surface-phase junctions of NaNbO <sub>3</sub> towards significant enhancement of CO <sub>2</sub> photoreduction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5606-5609	13	80
32	Porous-structured Cu <sub>2</sub> O/TiO <sub>2</sub> nanojunction material toward efficient CO <sub>2</sub> photoreduction. <i>Nanotechnology</i> , <b>2014</b> , 25, 165402	3.4	78

31	Selective Nonaqueous Synthesis of Cu-Codoped TiO <sub>2</sub> with Visible-Light Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11534-11541	3.8	75
30	Hierarchical chlorine-doped rutile TiO <sub>2</sub> spherical clusters of nanorods: Large-scale synthesis and high photocatalytic activity. <i>Journal of Solid State Chemistry</i> , <b>2008</b> , 181, 2516-2522	3.3	74
29	Size-Dependent Mie Scattering Effect on TiO <sub>2</sub> Spheres for the Superior Photoactivity of H <sub>2</sub> Evolution. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 3833-3839	3.8	73
28	Synergistic effect of Au and Rh on SrTiO <sub>3</sub> in significantly promoting visible-light-driven syngas production from CO <sub>2</sub> and H <sub>2</sub> O. <i>Chemical Communications</i> , <b>2016</b> , 52, 5989-92	5.8	63
27	Generalized Low-Temperature Synthesis of Nanocrystalline Rare-Earth Orthoferrites LnFeO <sub>3</sub> (Ln = La, Pr, Nd, Sm, Eu, Gd). <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 2061-2065	3.5	60
26	A General Soft Interface Platform for the Growth and Assembly of Hierarchical Rutile TiO <sub>2</sub> Nanorods Spheres. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 1216-1219	3.5	56
25	Solar-Driven Water-Gas Shift Reaction over CuO /Al <sub>2</sub> O <sub>3</sub> with 1.1 % of Light-to-Energy Storage. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7708-7712	16.4	47
24	Photocatalytic reactivity of {121} and {211} facets of brookite TiO <sub>2</sub> crystals. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2331-2337	13	45
23	Bifunctional-nanotemplate assisted synthesis of nanoporous SrTiO <sub>3</sub> photocatalysts toward efficient degradation of organic pollutant. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 22726-32	9.5	45
22	Microstructure Induced Thermodynamic and Kinetic Modulation to Enhance CO <sub>2</sub> Photothermal Reduction: A Case of Atomic-Scale Dispersed Co Species Anchored [email protected] Hybrid. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4726-4736	13.1	44
21	Controllable One-Pot Synthesis and Enhanced Visible Light Photocatalytic Activity of Tunable Cu-Codoped TiO <sub>2</sub> Nanocrystals with High Surface Area. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 940-946	3.8	40
20	Designing Au Surface-Modified Nanoporous-Single-Crystalline SrTiO <sub>3</sub> to Optimize Diffusion of Surface Plasmon Resonance-Induce Photoelectron toward Enhanced Visible-Light Photoactivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9506-13	9.5	36
19	Fabricating a Au@TiO <sub>2</sub> Plasmonic System To Elucidate Alkali-Induced Enhancement of Photocatalytic H <sub>2</sub> Evolution: Surface Potential Shift or Methanol Oxidation Acceleration?. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4266-4277	13.1	33
18	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901024	15.6	31
17	Surfactant-Free Synthesis of Single Crystalline SnS <sub>2</sub> and Effect of Surface Atomic Structure on the Photocatalytic Property. <i>International Journal of Photoenergy</i> , <b>2014</b> , 2014, 1-7	2.1	23
16	Selective synthesis of TiO <sub>2</sub> nanocrystals with morphology control with the microwave-solvothermal method. <i>CrystEngComm</i> , <b>2014</b> , 16, 1817	3.3	22
15	Effective mineralization of organic dye under visible-light irradiation over electronic-structure-modulated Sn(Nb <sub>1-x</sub> Ta <sub>x</sub> ) <sub>2</sub> O <sub>6</sub> solid solutions. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 168-169, 243-249	21.8	22
14	Nonhydrolytic Route to Boron-Doped TiO <sub>2</sub> Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 364-374	2.3	19

13	Mesoporous TiO <sub>2</sub> /Zn <sub>2</sub> Ti <sub>3</sub> O <sub>8</sub> hybrid films synthesized by polymeric micelle assembly. <i>Chemical Communications</i> , <b>2015</b> , 51, 14582-5	5.8	14
12	Light-driven low-temperature syngas production from CH <sub>3</sub> OH and H <sub>2</sub> O over a Pt@SrTiO <sub>3</sub> photothermal catalyst. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 2515-2518	5.5	14
11	Synthesis, Characterization, and Photocatalytic Activity of g-C <sub>3</sub> N <sub>4</sub> /KTaO <sub>3</sub> Composites under Visible Light Irradiation. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-7	3.2	14
10	Controllable One-Pot Synthesis of Anatase TiO <sub>2</sub> Nanorods with the Microwave-Solvothermal Method. <i>Science of Advanced Materials</i> , <b>2014</b> , 6, 1668-1675	2.3	13
9	Solar-Driven Water-Gas Shift Reaction over CuOx/Al <sub>2</sub> O <sub>3</sub> with 1.1 % of Light-to-Energy Storage. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7790-7794	3.6	12
8	Cu-Based mixed metal oxides for an efficient photothermal catalysis of the water-gas shift reaction. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 2125-2131	5.5	12
7	Effect of band structure on the hot-electron transfer over Au photosensitized brookite TiO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 3409-12	3.6	11
6	Coupling of Cu Catalyst and Phosphonated Ru Complex Light Absorber with TiO <sub>2</sub> as Bridge to Achieve Superior Visible Light CO <sub>2</sub> Photoreduction. <i>Transactions of Tianjin University</i> , <b>2020</b> , 26, 470-478	2.9	9
5	Response to comment on "High-active anatase TiO <sub>2</sub> nanosheets exposed with 95% {100} facets toward efficient H <sub>2</sub> evolution and CO <sub>2</sub> photoreduction". <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 8262	9.5	4
4	Efficient photodegradation of 2-chloro-4-nitrophenol over Fe-doped BiOCl nanosheets with oxygen vacancy. <i>Catalysis Science and Technology</i> ,	5.5	4
3	Photothermal Catalysis: Targeting Activation of CO <sub>2</sub> and H <sub>2</sub> over Ru-Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO <sub>2</sub> Methanation in Flow-Type System (Adv. Energy Mater. 5/2017). <i>Advanced Energy Materials</i> , <b>2017</b> , 7,	21.8	3
2	Structure, Optical Properties, and Photocatalytic Activity towards H <sub>2</sub> Generation and CO <sub>2</sub> Reduction of GaN Nanowires via Vapor-Liquid-Solid Process. <i>International Journal of Photoenergy</i> , <b>2014</b> , 2014, 1-6	2.1	2
1	Synergetic modulation of surface alkali and oxygen vacancy over SrTiO <sub>3</sub> for the CO photodissociation. <i>Nanotechnology</i> , <b>2021</b> , 33,	3.4	2