Hua Xu

List of Publications by Year in Descending Order

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	Synergetic modulation of surface alkali and oxygen vacancy over SrTiOfor the COphotodissociation. *Nanotechnology*, **2021**, 33,	3.4	2
47	Microstructure Induced Thermodynamic and Kinetic Modulation to Enhance CO2 Photothermal Reduction: A Case of Atomic-Scale Dispersed CoN Species Anchored Hybrid. *ACS Catalysis*, **2020**, 10, 4726-4736	13.1	44
46	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	2.9	9
45	Solar-Driven WaterGas Shift Reaction over CuOx/Al2O3 with 1.1 % of Light-to-Energy Storage. *Angewandte Chemie*, **2019**, 131, 7790-7794	3.6	12
44	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. *Advanced Functional Materials*, **2019**, 29, 1901024	15.6	31
43	Cu-Based mixed metal oxides for an efficient photothermal catalysis of the water-gas shift reaction. *Catalysis Science and Technology*, **2019**, 9, 2125-2131	5.5	12
42	Solar-Driven Water-Gas Shift Reaction over CuO /Al O with 1.1 % of Light-to-Energy Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 7708-7712	16.4	47
41	Light-driven low-temperature syngas production from CH3OH and H2O over a Pt@SrTiO3 photothermal catalyst. *Catalysis Science and Technology*, **2018**, 8, 2515-2518	5.5	14
40	Fabricating a Au@TiO2Plasmonic System To Elucidate Alkali-Induced Enhancement of Photocatalytic H2Evolution: Surface Potential Shift or Methanol Oxidation Acceleration?. *ACS Catalysis*, **2018**, 8, 4266-4277	13.1	33
39	Photothermal Catalysis: Targeting Activation of CO2 and H2 over Ru-Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO2 Methanation in Flow-Type System (Adv. Energy Mater. 5/2017). *Advanced Energy Materials*, **2017**, 7,	21.8	3
38	Targeting Activation of CO2 and H2 over Ru-Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO2 Methanation in Flow-Type System. *Advanced Energy Materials*, **2017**, 7, 1601657	21.8	134
37	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	13	191
36	Co-ZIF-9/TiO2 nanostructure for superior CO2 photoreduction activity. *Journal of Materials Chemistry A*, **2016**, 4, 15126-15133	13	125
35	Constructing Solid-Gas-Interfacial Fenton Reaction over Alkalinized-CN Photocatalyst To Achieve Apparent Quantum Yield of 49% at 420 nm. *Journal of the American Chemical Society*, **2016**, 138, 13289-13297	16.4	294
34	Nanometals for Solar-to-Chemical Energy Conversion: From Semiconductor-Based Photocatalysis to Plasmon-Mediated Photocatalysis and Photo-Thermocatalysis. *Advanced Materials*, **2016**, 28, 6781-803	24	322
33	Effect of band structure on the hot-electron transfer over Au photosensitized brookite TiO2. *Physical Chemistry Chemical Physics*, **2016**, 18, 3409-12	3.6	11
32	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, 9506-13	9.5	36

31	Metal-organic frameworks for photocatalysis. *Physical Chemistry Chemical Physics*, **2016**, 18, 7563-72	3.6	244
30	Synergistic effect of Au and Rh on SrTiO3 in significantly promoting visible-light-driven syngas production from CO2 and H2O. *Chemical Communications*, **2016**, 52, 5989-92	5.8	63
29	Mesoporous TiO2/Zn2Ti3O8 hybrid films synthesized by polymeric micelle assembly. *Chemical Communications*, **2015**, 51, 14582-5	5.8	14
28	Photocatalytic reactivity of {121} and {211} facets of brookite TiO2 crystals. *Journal of Materials Chemistry A*, **2015**, 3, 2331-2337	13	45
27	Synthesis, Characterization, and Photocatalytic Activity of g-C3N4/KTaO3Composites under Visible Light Irradiation. *Journal of Nanomaterials*, **2015**, 2015, 1-7	3.2	14
26	Effective mineralization of organic dye under visible-light irradiation over electronic-structure-modulated Sn(Nb 1− Ta x) 2 O 6 solid solutions. *Applied Catalysis B: Environmental*, **2015**, 168-169, 243-249	21.8	22
25	Recent advances in TiO2-based photocatalysis. *Journal of Materials Chemistry A*, **2014**, 2, 12642	13	371
24	Selective synthesis of TiO2 nanocrystals with morphology control with the microwave-solvothermal method. *CrystEngComm*, **2014**, 16, 1817	3.3	22
23	Constructing cubic–orthorhombic surface-phase junctions of NaNbO3 towards significant enhancement of CO2 photoreduction. *Journal of Materials Chemistry A*, **2014**, 2, 5606-5609	13	80
22	Porous-structured Cu2O/TiO2 nanojunction material toward efficient CO2 photoreduction. *Nanotechnology*, **2014**, 25, 165402	3.4	78
21	Bifunctional-nanotemplate assisted synthesis of nanoporous SrTiO photocatalysts toward efficient degradation of organic pollutant. *ACS Applied Materials & Interfaces*, **2014**, 6, 22726-32	9.5	45
20	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	2.1	2
19	Surfactant-Free Synthesis of Single Crystalline SnS2and Effect of Surface Atomic Structure on the Photocatalytic Property. *International Journal of Photoenergy*, **2014**, 2014, 1-7	2.1	23
18	Controllable One-Pot Synthesis of Anatase TiO2 Nanorods with the Microwave-Solvothermal Method. *Science of Advanced Materials*, **2014**, 6, 1668-1675	2.3	13
17	Anatase TiO2 Single Crystals Exposed with High-Reactive {111} Facets Toward Efficient H2 Evolution. *Chemistry of Materials*, **2013**, 25, 405-411	9.6	222
16	High-active anatase TiO nanosheets exposed with 95% {100} facets toward efficient H evolution and CO photoreduction. *ACS Applied Materials & Interfaces*, **2013**, 5, 1348-54	9.5	184
15	Nonhydrolytic Route to Boron-Doped TiO2 Nanocrystals. *European Journal of Inorganic Chemistry*, **2013**, 2013, 364-374	2.3	19
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	13	87

13	Reduced TiO2 nanotube arrays for photoelectrochemical water splitting. *Journal of Materials Chemistry A*, **2013**, 1, 5766	13	429
12	Response to comment on "High-active anatase TiO2 nanosheets exposed with 95% {100} facets toward efficient H2 evolution and CO2 photoreduction". *ACS Applied Materials & Interfaces*, **2013**, 5, 8262	9.5	4
11	Size-Dependent Mie Scattering Effect on TiO2 Spheres for the Superior Photoactivity of H2 Evolution. *Journal of Physical Chemistry C*, **2012**, 116, 3833-3839	3.8	73
10	Controllable One-Pot Synthesis and Enhanced Visible Light Photocatalytic Activity of Tunable C l-Codoped TiO2 Nanocrystals with High Surface Area. *Journal of Physical Chemistry C*, **2010**, 114, 940-946	3.8	40
9	Selective Nonaqueous Synthesis of C l-Codoped TiO2 with Visible-Light Photocatalytic Activity. *Journal of Physical Chemistry C*, **2010**, 114, 11534-11541	3.8	75
8	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	3.8	142
7	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	3.5	60
6	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	5.2	140
5	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	3.3	74
4	A General Soft Interface Platform for the Growth and Assembly of Hierarchical Rutile TiO2 Nanorods Spheres. *Crystal Growth and Design*, **2007**, 7, 1216-1219	3.5	56
3	TiO2@CdS core shell nanorods films: Fabrication and dramatically enhanced photoelectrochemical properties. *Electrochemistry Communications*, **2007**, 9, 354-360	5.1	85
2	A general approach to porous crystalline TiO2, SrTiO3, and BaTiO3 spheres. *Journal of Physical Chemistry B*, **2006**, 110, 13835-40	3.4	121
1	Efficient photodegradation of 2-chloro-4-nitrophenol over Fe-doped BiOCl nanosheets with oxygen vacancy. *Catalysis Science and Technology*,	5.5	4