Shuxin Ouyang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59 papers	7,437 citations	31 h-index	63 g-index
63 ext. papers	8,442 ext. citations	11.3 avg, IF	6.06 L-index

#	Paper	IF	Citations
59	Solar Light-induced Injection of Hot Electrons and Photocarriers for Synergistically Enhanced Photothermocatalysis Over Cu-Co/SrTiO3 Catalyst Towards Boosting CO Hydrogenation Into C2□4 Hydrocarbons. *Applied Catalysis B: Environmental*, **2022**, 121063	21.8	4
58	Structural and Componential Engineering of CoP&CoP@N-C Nanoarrays for Energy-Efficient Hydrogen Production from Water Electrolysis. *ACS Applied Materials & Interfaces*, **2021**, 13, 56064-56072	9.5	0
57	Synergetic modulation of surface alkali and oxygen vacancy over SrTiOfor the COphotodissociation. *Nanotechnology*, **2021**, 33,	3.4	2
56	Fabrication of Black In2O3 with Dense Oxygen Vacancy through Dual Functional Carbon Doping for Enhancing Photothermal CO2 Hydrogenation. *Advanced Functional Materials*, **2021**, 31, 2100908	15.6	18
55	A Metal-Segregation Approach to Generate CoMn Alloy for Enhanced Photothermal Conversion of Syngas to Light Olefins. *Solar Rrl*, **2021**, 5, 2000488	7.1	8
54	Cost-Efficient Photovoltaic-Water Electrolysis over Ultrathin Nanosheets of Cobalt/Iron-Molybdenum Oxides for Potential Large-Scale Hydrogen Production. *Small*, **2021**, 17, e2102222	11	5
53	Charge localization to optimize reactant adsorption on KCu7S4/CuO interfacial structure toward selective CO2 electroreduction. *Applied Catalysis B: Environmental*, **2021**, 298, 120531	21.8	5
52	Photocarriers-enhanced photothermocatalysis of water-gas shift reaction under H2-rich and low-temperature condition over CeO2/Cu1.5Mn1.5O4 catalyst. *Applied Catalysis B: Environmental*, **2021**, 298, 120551	21.8	6
51	Modulation of an intermediate layer between NiCoP and Ni foam substrate in a microwire array electrode for enhancing the hydrogen-evolution reaction. *Chemical Communications*, **2020**, 56, 4990-4993	5.8	4
50	CoAl-layered double hydroxide nanosheet-based fluorescence assay for fast DNA detection. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 240, 118618	4.4	5
49	Plum Pudding-Like Electrocatalyst of N-Doped SnOx@Sn Loaded on Carbon Matrix to Construct Photovoltaic CO2 Reduction System with Solar-to-Fuel Efficiency of 11.3%. *Solar Rrl*, **2020**, 4, 2070072	7.1	
48	Microstructure Induced Thermodynamic and Kinetic Modulation to Enhance CO2 Photothermal Reduction: A Case of Atomic-Scale Dispersed CoN Species Anchored [email□protected] Hybrid. *ACS Catalysis*, **2020**, 10, 4726-4736	13.1	44
47	Photoinduced Defect Engineering: Enhanced Photothermal Catalytic Performance of 2D Black In O Nanosheets with Bifunctional Oxygen Vacancies. *Advanced Materials*, **2020**, 32, e1903915	24	103
46	Effect of Support on Catalytic Performance of Photothermal Fischer-Tropsch Synthesis to Produce Lower Olefins over Fe5C2-based Catalysts. *Chemical Research in Chinese Universities*, **2020**, 36, 1006-1012	2.2	8
45	Plum Pudding-Like Electrocatalyst of N-Doped SnOx@Sn Loaded on Carbon Matrix to Construct Photovoltaic CO2 Reduction System with Solar-to-Fuel Efficiency of 11.3%. *Solar Rrl*, **2020**, 4, 2000116	7.1	4
44	Solar-Driven Water□Gas Shift Reaction over CuOx/Al2O3 with 1.1 % of Light-to-Energy Storage. *Angewandte Chemie*, **2019**, 131, 7790-7794	3.6	12
43	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. *Advanced Functional Materials*, **2019**, 29, 1901024	15.6	31

42	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
41	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
40	Co and Fe Codoped WO as Alkaline-Solution-Available Oxygen Evolution Reaction Catalyst to Construct Photovoltaic Water Splitting System with Solar-To-Hydrogen Efficiency of 16.9. *Advanced Science*, **2019**, 6, 1900465	13.6	37
39	Atomic carbon chains-mediated carriers transfer over polymeric carbon nitride for efficient photocatalysis. *Applied Catalysis B: Environmental*, **2019**, 259, 118027	21.8	13
38	Bifunctional hydroxyl group over polymeric carbon nitride to achieve photocatalytic HO production in ethanol aqueous solution with an apparent quantum yield of 52.8% at 420 nm. *Chemical Communications*, **2019**, 55, 13279-13282	5.8	22
37	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
36	Ultrafast one-step synthesis of N and Ti3+ codoped TiO2 nanosheets via energetic material deflagration. *Nano Research*, **2018**, 11, 4735-4743	10	16
35	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
34	Polyoxometalates covalently combined with graphitic carbon nitride for photocatalytic hydrogen peroxide production. *Catalysis Science and Technology*, **2018**, 8, 1686-1695	5.5	46
33	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
32	Synergistic Activity of Co and Fe in Amorphous Cox-Fe-B Catalyst for Efficient Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 40333-40343	9.5	104
31	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
30	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
29	Co-ZIF-9/TiO2 nanostructure for superior CO2 photoreduction activity. *Journal of Materials Chemistry A*, **2016**, 4, 15126-15133	13	125
28	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
27	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
26	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
25	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

24	Metal-organic frameworks for photocatalysis. *Physical Chemistry Chemical Physics*, **2016**, 18, 7563-72	3.6	244
23	Drastic Layer-Number-Dependent Activity Enhancement in Photocatalytic H2 Evolution over nMoS2/CdS (n ≥ 1) Under Visible Light. *Advanced Energy Materials*, **2015**, 5, 1402279	21.8	197
22	Band-structure-controlled BiO(ClBr)(1−x)/2Ix solid solutions for visible-light photocatalysis. *Journal of Materials Chemistry A*, **2015**, 3, 8123-8132	13	95
21	Photocatalytic reactivity of {121} and {211} facets of brookite TiO2 crystals. *Journal of Materials Chemistry A*, **2015**, 3, 2331-2337	13	45
20	Preface for Special Topic: Photocatalysis. *APL Materials*, **2015**, 3, 103801	5.7	
19	Enhanced photocatalytic degradation of 2-propanol over macroporous GaN/ZnO solid solution prepared by a novel sol-gel method. *APL Materials*, **2015**, 3, 104414	5.7	18
18	In situ synthesis of ordered mesoporous Co-doped TiO2 and its enhanced photocatalytic activity and selectivity for the reduction of CO2. *Journal of Materials Chemistry A*, **2015**, 3, 9491-9501	13	128
17	Innentitelbild: Photothermal Conversion of CO2 into CH4 with H2 over Group VIII Nanocatalysts: An Alternative Approach for Solar Fuel Production (Angew. Chem. 43/2014). *Angewandte Chemie*, **2014** , 126, 11568-11568	3.6	1
16	Recent advances in TiO2-based photocatalysis. *Journal of Materials Chemistry A*, **2014**, 2, 12642	13	371
15	Photocatalytic CO2 conversion over alkali modified TiO2 without loading noble metal cocatalyst. *Chemical Communications*, **2014**, 50, 11517-9	5.8	136
14	Photothermal Conversion of CO2 into CH4 with H2 over Group VIII Nanocatalysts: An Alternative Approach for Solar Fuel Production. *Angewandte Chemie*, **2014**, 126, 11662-11666	3.6	92
13	Porous-structured Cu2O/TiO2 nanojunction material toward efficient CO2 photoreduction. *Nanotechnology*, **2014**, 25, 165402	3.4	78
12	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
11	Photothermal conversion of CO into CH with H over Group VIII nanocatalysts: an alternative approach for solar fuel production. *Angewandte Chemie - International Edition*, **2014**, 53, 11478-82	16.4	275
10	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
9	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
8	Nano-photocatalytic materials: possibilities and challenges. *Advanced Materials*, **2012**, 24, 229-51	24	2967
7	Ultrathin W18O49 nanowires with diameters below 1 nm: synthesis, near-infrared absorption, photoluminescence, and photochemical reduction of carbon dioxide. *Angewandte Chemie - International Edition*, **2012**, 51, 2395-9	16.4	423

6	Mechanism of photocatalytic activities in Cr-doped SrTiO3 under visible-light irradiation: an insight from hybrid density-functional calculations. *Physical Chemistry Chemical Physics*, **2012**, 14, 1876-80	3.6	68
5	Surface-alkalinization-induced enhancement of photocatalytic H2 evolution over SrTiO3-based photocatalysts. *Journal of the American Chemical Society*, **2012**, 134, 1974-7	16.4	287
4	Photoassisted fabrication of zinc indium oxide/oxysulfide composite for enhanced photocatalytic H evolution under visible-light irradiation. *Science and Technology of Advanced Materials*, **2012**, 13, 055001	7.1	5
3	High-aspect-ratio single-crystalline porous In2O3 nanobelts with enhanced gas sensing properties. *Journal of Materials Chemistry*, **2011**, 21, 12852		124
2	Photocarrier-assisted photothermocatalysis of Fischer□ropsch synthesis for the enhanced yield of C2□4 hydrocarbons over a Co/SrTiO3 catalyst. *Catalysis Science and Technology*,	5.5	1
1	Electronically Activated Fe5C2 via N-Doped Carbon to Enhance Photothermal Syngas Conversion to Light Olefins. *ACS Catalysis*,5316-5326	13.1	2