

Shuxin Ouyang

List of Publications by Year in descending order

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papers

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117453

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docs citations

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times ranked

11374
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-photocatalytic Materials: Possibilities and Challenges. <i>Advanced Materials</i> , 2012, 24, 229-251.	11.1	3,375
2	Ultrathin $W_{18}O_{49}$ Nanowires with Diameters below 10 nm: Synthesis, Near-Infrared Absorption, Photoluminescence, and Photochemical Reduction of Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2395-2399.	7.2	492
3	Nanometals for Solar-to-Chemical Energy Conversion: From Semiconductor-Based Photocatalysis to Plasmon-Mediated Photocatalysis and Photo-Thermocatalysis. <i>Advanced Materials</i> , 2016, 28, 6781-6803.	11.1	471
4	Recent advances in TiO_2 -based photocatalysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12642.	5.2	418
5	Photothermal Conversion of CO_2 into CH_4 with H_2 over Group-VIII Nanocatalysts: An Alternative Approach for Solar Fuel Production. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11478-11482.	7.2	385
6	Constructing Solid-Gas-Interfacial Fenton Reaction over Alkalinized- C_3N_4 Photocatalyst To Achieve Apparent Quantum Yield of 49% at 420 nm. <i>Journal of the American Chemical Society</i> , 2016, 138, 13289-13297.	6.6	364
7	Surface-Alkalinization-Induced Enhancement of Photocatalytic H_2 Evolution over $SrTiO_3$ -Based Photocatalysts. <i>Journal of the American Chemical Society</i> , 2012, 134, 1974-1977.	6.6	330
8	Metal-organic frameworks for photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7563-7572.	1.3	304
9	In situ surface alkalinized $g-C_3N_4$ toward enhancement of photocatalytic H_2 evolution under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2943-2950.	5.2	247
10	Drastic Layer-Number-Dependent Activity Enhancement in Photocatalytic H_2 Evolution over MoS_2/CdS ($\lambda_{exc} = 1$) Under Visible Light. <i>Advanced Energy Materials</i> , 2015, 5, 1402279.	10.2	239
11	Photoinduced Defect Engineering: Enhanced Photothermal Catalytic Performance of 2D Black In_2O_3 Nanosheets with Bifunctional Oxygen Vacancies. <i>Advanced Materials</i> , 2020, 32, e1903915.	11.1	208
12	Targeting Activation of CO_2 and H_2 over Ru -Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO_2 Methanation in Flow-Type System. <i>Advanced Energy Materials</i> , 2017, 7, 1601657.	10.2	193
13	Co-ZIF-9/ TiO_2 nanostructure for superior CO_2 photoreduction activity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15126-15133.	5.2	180
14	Photocatalytic CO_2 conversion over alkali modified TiO_2 without loading noble metal cocatalyst. <i>Chemical Communications</i> , 2014, 50, 11517-11519.	2.2	162
15	In situ synthesis of ordered mesoporous Co-doped TiO_2 and its enhanced photocatalytic activity and selectivity for the reduction of CO_2 . <i>Journal of Materials Chemistry A</i> , 2015, 3, 9491-9501.	5.2	155
16	Synergistic Activity of Co and Fe in Amorphous Co_xFe_{1-x} Catalyst for Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40333-40343.	4.0	145
17	High-aspect-ratio single-crystalline porous In_2O_3 nanobelts with enhanced gas sensing properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 12852.	6.7	131
18	Band-structure-controlled $BiO(ClBr)_{1-x}I_x$ solid solutions for visible-light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8123-8132.	5.2	114

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19	Theoretical design of highly active SrTiO ₃ -based photocatalysts by a codoping scheme towards solar energy utilization for hydrogen production. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4221.	5.2	106
20	Porous-structured Cu ₂ O/TiO ₂ nanojunction material toward efficient CO ₂ photoreduction. <i>Nanotechnology</i> , 2014, 25, 165402.	1.3	86
21	Microstructure Induced Thermodynamic and Kinetic Modulation to Enhance CO ₂ Photothermal Reduction: A Case of Atomic-Scale Dispersed Co ^N Species Anchored Co@C Hybrid. <i>ACS Catalysis</i> , 2020, 10, 4726-4736.	5.5	84
22	Solar-Driven Water-Gas Shift Reaction over CuO _x /Al ₂ O ₃ with 1.1% of Light-to-Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7708-7712.	7.2	78
23	Mechanism of photocatalytic activities in Cr-doped SrTiO ₃ under visible-light irradiation: an insight from hybrid density-functional calculations. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1876.	1.3	73
24	Co and Fe Codoped WO _{2.72} as Alkaline-Solution-Available Oxygen Evolution Reaction Catalyst to Construct Photovoltaic Water Splitting System with Solar-to-Hydrogen Efficiency of 16.9%. <i>Advanced Science</i> , 2019, 6, 1900465.	5.6	72
25	Polyoxometalates covalently combined with graphitic carbon nitride for photocatalytic hydrogen peroxide production. <i>Catalysis Science and Technology</i> , 2018, 8, 1686-1695.	2.1	70
26	Subsurface oxygen defects electronically interacting with active sites on In ₂ O ₃ for enhanced photothermocatalytic CO ₂ reduction. <i>Nature Communications</i> , 2022, 13, .	5.8	70
27	Fabrication of Black In ₂ O ₃ with Dense Oxygen Vacancy through Dual Functional Carbon Doping for Enhancing Photothermal CO ₂ Hydrogenation. <i>Advanced Functional Materials</i> , 2021, 31, 2100908.	7.8	66
28	Photocatalytic reactivity of {121} and {211} facets of brookite TiO ₂ crystals. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2331-2337.	5.2	54
29	Bifunctional-Nanotemplate Assisted Synthesis of Nanoporous SrTiO ₃ Photocatalysts Toward Efficient Degradation of Organic Pollutant. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22726-22732.	4.0	50
30	Fabricating a Au@TiO ₂ Plasmonic System To Elucidate Alkali-Induced Enhancement of Photocatalytic H ₂ Evolution: Surface Potential Shift or Methanol Oxidation Acceleration?. <i>ACS Catalysis</i> , 2018, 8, 4266-4277.	5.5	46
31	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1901024.	7.8	44
32	Designing Au Surface-Modified Nanoporous-Single-Crystalline SrTiO ₃ to Optimize Diffusion of Surface Plasmon Resonance-Induce Photoelectron toward Enhanced Visible-Light Photoactivity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9506-9513.	4.0	42
33	Bifunctional hydroxyl group over polymeric carbon nitride to achieve photocatalytic H ₂ O ₂ production in ethanol aqueous solution with an apparent quantum yield of 52.8% at 420 nm. <i>Chemical Communications</i> , 2019, 55, 13279-13282.	2.2	37
34	Atomic carbon chains-mediated carriers transfer over polymeric carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118027.	10.8	35
35	Surfactant-Free Synthesis of Single Crystalline SnS ₂ and Effect of Surface Atomic Structure on the Photocatalytic Property. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-7.	1.4	31
36	Solar light-induced injection of hot electrons and photocarriers for synergistically enhanced photothermocatalysis over Cu-Co/SrTiO ₃ catalyst towards boosting CO hydrogenation into C ₂ -C ₄ hydrocarbons. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121063.	10.8	27

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37	Photocarriers-enhanced photothermocatalysis of water-gas shift reaction under H ₂ -rich and low-temperature condition over CeO ₂ /Cu _{1.5} Mn _{1.5} O ₄ catalyst. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120551.	10.8	26
38	Charge localization to optimize reactant adsorption on KCu ₇ S ₄ /CuO interfacial structure toward selective CO ₂ electroreduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120531.	10.8	25
39	Cu-Based mixed metal oxides for an efficient photothermal catalysis of the water-gas shift reaction. <i>Catalysis Science and Technology</i> , 2019, 9, 2125-2131.	2.1	21
40	Enhanced photocatalytic degradation of 2-propanol over macroporous GaN/ZnO solid solution prepared by a novel sol-gel method. <i>APL Materials</i> , 2015, 3, .	2.2	20
41	Electronically Activated Fe ₅ C ₂ via N-Doped Carbon to Enhance Photothermal Syngas Conversion to Light Olefins. <i>ACS Catalysis</i> , 2022, 12, 5316-5326.	5.5	19
42	Light-driven low-temperature syngas production from CH ₃ OH and H ₂ O over a Pt@SrTiO ₃ photothermal catalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 2515-2518.	2.1	18
43	Ultrafast one-step synthesis of N and Ti ³⁺ codoped TiO ₂ nanosheets via energetic material deflagration. <i>Nano Research</i> , 2018, 11, 4735-4743.	5.8	18
44	Solar-Driven Water-Gas Shift Reaction over CuO x /Al ₂ O ₃ with 1.1% of Light Energy Storage. <i>Angewandte Chemie</i> , 2019, 131, 7790-7794.	1.6	17
45	A Metal Segregation Approach to Generate CoMn Alloy for Enhanced Photothermal Conversion of Syngas to Light Olefins. <i>Solar Rrl</i> , 2021, 5, 2000488.	3.1	16
46	Cost-Efficient Photovoltaic Water Electrolysis over Ultrathin Nanosheets of Cobalt/Iron-Molybdenum Oxides for Potential Large-Scale Hydrogen Production. <i>Small</i> , 2021, 17, e2102222.	5.2	16
47	Effect of band structure on the hot-electron transfer over Au photosensitized brookite TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3409-3412.	1.3	14
48	Effect of Support on Catalytic Performance of Photothermal Fischer-Tropsch Synthesis to Produce Lower Olefins over Fe ₅ C ₂ -based Catalysts. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1006-1012.	1.3	14
49	CoAl-layered double hydroxide nanosheet-based fluorescence assay for fast DNA detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 240, 118618.	2.0	13
50	Photocatalyst-assisted photothermocatalysis of Fischer-Tropsch synthesis for the enhanced yield of C ₂ -C ₄ hydrocarbons over a Co/SrTiO ₃ catalyst. <i>Catalysis Science and Technology</i> , 2021, 11, 7029-7034.	2.1	12
51	Modulation of an intermediate layer between NiCoP and Ni foam substrate in a microwire array electrode for enhancing the hydrogen-evolution reaction. <i>Chemical Communications</i> , 2020, 56, 4990-4993.	2.2	10
52	Structural and Componential Engineering of Co ₂ P&CoP@N-C Nanoarrays for Energy-Efficient Hydrogen Production from Water Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56064-56072.	4.0	7
53	Photoassisted fabrication of zinc indium oxide/oxy sulfide composite for enhanced photocatalytic H ₂ evolution under visible-light irradiation. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 055001.	2.8	5
54	Photothermal Catalysis: Targeting Activation of CO ₂ and H ₂ over Ru-Loaded Ultrathin Layered Double Hydroxides to Achieve Efficient Photothermal CO ₂ Methanation in Flow-Type System (<i>Adv. Energy Mater.</i> 5/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	5

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55	Plum Pudding-Like Electrocatalyst of Na-Doped SnO _x @Sn Loaded on Carbon Matrix to Construct Photovoltaic CO ₂ Reduction System with Solar-to-Fuel Efficiency of 11.3%. Solar Rrl, 2020, 4, 2000116.	3.1	5
56	Synergetic modulation of surface alkali and oxygen vacancy over SrTiO ₃ for the CO ₂ photodissociation. Nanotechnology, 2022, 33, 085401.	1.3	3
57	Preface for Special Topic: Photocatalysis. APL Materials, 2015, 3, 103801.	2.2	0
58	Plum Pudding-Like Electrocatalyst of Na-Doped SnO _x @Sn Loaded on Carbon Matrix to Construct Photovoltaic CO ₂ Reduction System with Solar-to-Fuel Efficiency of 11.3%. Solar Rrl, 2020, 4, 2070072.	3.1	0