

Shuxin Ouyang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6056504/shuxin-ouyang-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Nano-photocatalytic materials: possibilities and challenges. <i>Advanced Materials</i> , 2012 , 24, 229-51	24	2967
58	Ultrathin W18O49 nanowires with diameters below 1 nm: synthesis, near-infrared absorption, photoluminescence, and photochemical reduction of carbon dioxide. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2395-9	16.4	423
57	Recent advances in TiO ₂ -based photocatalysis. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12642	13	371
56	Nanometals for Solar-to-Chemical Energy Conversion: From Semiconductor-Based Photocatalysis to Plasmon-Mediated Photocatalysis and Photo-Thermocatalysis. <i>Advanced Materials</i> , 2016 , 28, 6781-8034	24	322
55	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> , 2016 , 138, 13289-13297	16.4	294
54	Surface-alkalinization-induced enhancement of photocatalytic H ₂ evolution over SrTiO ₃ -based photocatalysts. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1974-7	16.4	287
53	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, 11478-82	16.4	275
52	Metal-organic frameworks for photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7563-72	3.6	244
51	Drastic Layer-Number-Dependent Activity Enhancement in Photocatalytic H ₂ Evolution over nMoS ₂ /CdS (n = 1) Under Visible Light. <i>Advanced Energy Materials</i> , 2015 , 5, 1402279	21.8	197
50	In situ surface alkalinized g-C ₃ N ₄ toward enhancement of photocatalytic H ₂ evolution under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2943-2950	13	191
49	Photocatalytic CO ₂ conversion over alkali modified TiO ₂ without loading noble metal cocatalyst. <i>Chemical Communications</i> , 2014 , 50, 11517-9	5.8	136
48	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	21.8	134
47	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	13	128
46	Co-ZIF-9/TiO ₂ nanostructure for superior CO ₂ photoreduction activity. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15126-15133	13	125
45	High-aspect-ratio single-crystalline porous In ₂ O ₃ nanobelts with enhanced gas sensing properties. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12852		124
44	Synergistic Activity of Co and Fe in Amorphous Co _x -Fe-B Catalyst for Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40333-40343	9.5	104
43	Photoinduced Defect Engineering: Enhanced Photothermal Catalytic Performance of 2D Black In ₂ O ₃ Nanosheets with Bifunctional Oxygen Vacancies. <i>Advanced Materials</i> , 2020 , 32, e1903915	24	103

42	Band-structure-controlled BiO(ClBr)(1-x)/2x solid solutions for visible-light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8123-8132	13	95
41	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</i> , 2014 , 126, 11662-11666	3.6	92
40	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	13	87
39	Porous-structured Cu ₂ O/TiO ₂ nanojunction material toward efficient CO ₂ photoreduction. <i>Nanotechnology</i> , 2014 , 25, 165402	3.4	78
38	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, 1876-80	3.6	68
37	Solar-Driven Water-Gas Shift Reaction over CuO /Al ₂ O ₃ with 1.1 % of Light-to-Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7708-7712	16.4	47
36	Polyoxometalates covalently combined with graphitic carbon nitride for photocatalytic hydrogen peroxide production. <i>Catalysis Science and Technology</i> , 2018 , 8, 1686-1695	5.5	46
35	Photocatalytic reactivity of {121} and {211} facets of brookite TiO ₂ crystals. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2331-2337	13	45
34	Bifunctional-nanotemplate assisted synthesis of nanoporous SrTiO ₃ photocatalysts toward efficient degradation of organic pollutant. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22726-32	9.5	45
33	Microstructure Induced Thermodynamic and Kinetic Modulation to Enhance CO ₂ Photothermal Reduction: A Case of Atomic-Scale Dispersed Co Species Anchored Hybrid. <i>ACS Catalysis</i> , 2020 , 10, 4726-4736	13.1	44
32	Co and Fe Codoped WO ₃ 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	13.6	37
31	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, 9506-13	9.5	36
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	13.1	33
29	Targeted Exfoliation and Reassembly of Polymeric Carbon Nitride for Efficient Photocatalysis. <i>Advanced Functional Materials</i> , 2019 , 29, 1901024	15.6	31
28	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	2.1	23
27	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	5.8	22
26	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, 104414	5.7	18
25	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	15.6	18

24	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	10	16
23	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	5.5	14
22	Atomic carbon chains-mediated carriers transfer over polymeric carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118027	21.8	13
21	Solar-Driven Water-Gas Shift Reaction over CuOx/Al ₂ O ₃ with 1.1 % of Light-to-Energy Storage. <i>Angewandte Chemie</i> , 2019 , 131, 7790-7794	3.6	12
20	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	5.5	12
19	Effect of band structure on the hot-electron transfer over Au photosensitized brookite TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3409-12	3.6	11
18	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	2.2	8
17	A Metal-Segregation Approach to Generate CoMn Alloy for Enhanced Photothermal Conversion of Syngas to Light Olefins. <i>Solar Rrl</i> , 2021 , 5, 2000488	7.1	8
16	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	21.8	6
15	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	4.4	5
14	Photoassisted fabrication of zinc indium oxide/oxysulfide composite for enhanced photocatalytic H ₂ evolution under visible-light irradiation. <i>Science and Technology of Advanced Materials</i> , 2012 , 13, 055001	7.1	5
13	Cost-Efficient Photovoltaic-Water Electrolysis over Ultrathin Nanosheets of Cobalt/Iron-Molybdenum Oxides for Potential Large-Scale Hydrogen Production. <i>Small</i> , 2021 , 17, e210222	11.2	5
12	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	21.8	5
11	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	5.8	4
10	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 -4 Hydrocarbons. <i>Applied Catalysis B: Environmental</i> , 2022 , 121063	21.8	4
9	Plum Pudding-Like Electrocatalyst of N-Doped SnOx@Sn Loaded on Carbon Matrix to Construct Photovoltaic CO ₂ Reduction System with Solar-to-Fuel Efficiency of 11.3%. <i>Solar Rrl</i> , 2020 , 4, 2000116	7.1	4
8	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 (Adv. Energy Mater. 5/2017). <i>Advanced Energy Materials</i> , 2017 , 7,	21.8	3
7	Synergetic modulation of surface alkali and oxygen vacancy over SrTiO ₃ for the CO photodissociation. <i>Nanotechnology</i> , 2021 , 33,	3.4	2

- | | | | |
|---|--|------|---|
| 6 | Electronically Activated Fe ₅ C ₂ via N-Doped Carbon to Enhance Photothermal Syngas Conversion to Light Olefins. <i>ACS Catalysis</i> , 5316-5326 | 13.1 | 2 |
| 5 | Innentitelbild: Photothermal Conversion of CO ₂ into CH ₄ with H ₂ over Group VIII Nanocatalysts: An Alternative Approach for Solar Fuel Production (Angew. Chem. 43/2014). <i>Angewandte Chemie</i> , 2014 , 126, 11568-11568 | 3.6 | 1 |
| 4 | 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> , | 5.5 | 1 |
| 3 | Structural and Componential Engineering of CoP&CoP@N-C Nanoarrays for Energy-Efficient Hydrogen Production from Water Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56064-56072 | 9.5 | 0 |
| 2 | Plum Pudding-Like Electrocatalyst of N-Doped SnOx@Sn Loaded on Carbon Matrix to Construct Photovoltaic CO ₂ Reduction System with Solar-to-Fuel Efficiency of 11.3%. <i>Solar Rrl</i> , 2020 , 4, 2070072 | 7.1 | |
| 1 | Preface for Special Topic: Photocatalysis. <i>APL Materials</i> , 2015 , 3, 103801 | 5.7 | |