Shunji Xie

List of Publications by Year
in descending order

32 papers	5,347 citations	186265 28 h-index	395702 33 g-index
33 all docs	33 docs citations	33 times ranked	5238 citing authors

#	Article	IF	Citations
1	Electrocatalytic reduction of CO2 to ethylene and ethanol through hydrogen-assisted Câ€“C coupling over fluorine-modified copper. Nature Catalysis, 2020, 3, 478-487.	34.4	788
2	Photocatalytic and photoelectrocatalytic reduction of CO₂ using heterogeneous catalysts with controlled nanostructures. Chemical Communications, 2016, 52, 35-59.	4.1	508
3	Promoting electrocatalytic CO2 reduction to formate via sulfur-boosting water activation on indium surfaces. Nature Communications, 2019, 10, 892.	12.8	446
4	Solar energy-driven lignin-first approach to full utilization of lignocellulosic biomass under mild conditions. Nature Catalysis, 2018, 1, 772-780.	34.4	442
5	MgO- and Pt-Promoted TiO₂ as an Efficient Photocatalyst for the Preferential Reduction of Carbon Dioxide in the Presence of Water. ACS Catalysis, 2014, 4, 3644-3653.	11.2	380
6	Photocatalytic transformations of lignocellulosic biomass into chemicals. Chemical Society Reviews, 2020, 49, 6198-6223.	38.1	374
7	Photocatalytic Conversion of Carbon Dioxide with Water into Methane: Platinum and Copper(I) Oxide Coâ€catalysts with a Coreâ€“Shell Structure. Angewandte Chemie - International Edition, 2013, 52, 5776-5779.	13.8	358
8	Electrocatalytic reduction of CO₂ and CO to multi-carbon compounds over Cu-based catalysts. Chemical Society Reviews, 2021, 50, 12897-12914.	38.1	266
9	Photocatalytic reduction of CO2 with H2O: significant enhancement of the activity of Ptâ€“TiO2 in CH4 formation by addition of MgO. Chemical Communications, 2013, 49, 2451.	4.1	220
10	Visible light-driven Câˆ’H activation and Câ€“C coupling of methanol into ethylene glycol. Nature Communications, 2018, 9, 1181.	12.8	188
11	Ligand-Controlled Photocatalysis of CdS Quantum Dots for Lignin Valorization under Visible Light. ACS Catalysis, 2019, 9, 8443-8451.	11.2	128
12	Vertically aligned ZnOâ€“Au@CdS coreâ€“shell nanorod arrays as an all-solid-state vectorial Z-scheme system for photocatalytic application. Journal of Materials Chemistry A, 2016, 4, 18804-18814.	10.3	122
13	Selectivity Control in Photocatalytic Valorization of Biomass-Derived Platform Compounds by Surface Engineering of Titanium Oxide. CheM, 2020, 6, 3038-3053.	11.7	112
14	Photocatalytic and electrocatalytic transformations of C1 molecules involving Câ€“C coupling. Energy and Environmental Science, 2021, 14, 37-89.	30.8	110
15	Metal Sulfide Photocatalysts for Lignocellulose Valorization. Advanced Materials, 2021, 33, e2007129.	21.0	106
16	Selective electrocatalytic conversion of methane to fuels and chemicals. Journal of Energy Chemistry, 2018, 27, 1629-1636.	12.9	97
17	Visibleâ€Lightâ€Driven Cleavage of Câˆ’O Linkage for Lignin Valorization to Functionalized Aromatics. ChemSusChem, 2019, 12, 5023-5031.	6.8	86
18	Câ€“H activations of methanol and ethanol and Câ€“C couplings into diols by zincâ€“indiumâ€“sulfide under visible light. Chemical Communications, 2020, 56, 1776-1779.	4.1	59

#	Article	IF	Citations
19	Revealing the Doubleâ€Edged Sword Role of Graphene on Boosted Charge Transfer versus Active Site Control in TiO₂ Nanotube Arrays@RGO/MoS₂ Heterostructure. Small, 2018, 14, e1704531.	10.0	49
20	SrNb₂O₆ nanoplates as efficient photocatalysts for the preferential reduction of CO₂ in the presence of H₂O. Chemical Communications, 2015, 51, 3430-3433.	4.1	44
21	Inducing Electron Dissipation of Pyridinic N Enabled by Single Niâ€“N₄ Sites for the Reduction of Aldehydes/Ketones with Ethanol. ACS Catalysis, 2021, 11, 6398-6405.	11.2	43
22	Catalytic transformation of 2,5-furandicarboxylic acid to adipic acid over niobic acid-supported Pt nanoparticles. Chemical Communications, 2019, 55, 8013-8016.	4.1	41
23	Zirconia-supported rhenium oxide as an efficient catalyst for the synthesis of biomass-based adipic acid ester. Chemical Communications, 2019, 55, 11017-11020.	4.1	40
24	Nickel and indium core-shell co-catalysts loaded silicon nanowire arrays for efficient photoelectrocatalytic reduction of CO2 to formate. Journal of Energy Chemistry, 2021, 54, 422-428.	12.9	38
25	Photoelectrocatalytic reduction of CO₂ to syngas over Ag nanoparticle modified p-Si nanowire arrays. Nanoscale, 2019, 11, 12530-12536.	5.6	36
26	Photocatalytic coupling of formaldehyde to ethylene glycol and glycolaldehyde over bismuth vanadate with controllable facets and cocatalysts. Catalysis Science and Technology, 2017, 7, 923-933.	4.1	30
27	Z-Scheme nanocomposite with high redox ability for efficient cleavage of lignin Câ€“C bonds under simulated solar light. Green Chemistry, 2021, 23, 10071-10078.	9.0	30
28	Tribocatalysis: challenges and perspectives. Science China Chemistry, 2021, 64, 1609-1613.	8.2	27
29	Direct conversion of formaldehyde to ethylene glycol via photocatalytic carbonâ€“carbon coupling over bismuth vanadate. Catalysis Science and Technology, 2016, 6, 6485-6489.	4.1	20
30	Solar energy-driven Câˆ’H activation of methanol for direct Câˆ’C coupling to ethylene glycol with high stability by nitrogen doped tantalum oxide. Chinese Journal of Catalysis, 2021, 42, 1459-1467.	14.0	20
31	Photocatalytic Câˆ’H activation and Câˆ’C coupling of monohydric alcohols. Catalysis Communications, 2021, 153, 106300.	3.3	13
32	Photocatalysis: Revealing the Double-Edged Sword Role of Graphene on Boosted Charge Transfer versus Active Site Control in TiO2 Nanotube Arrays@RGO/MoS2 Heterostructure (Small 21/2018). Small, 2018, 14, 1870096.	10.0	3