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	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
2	Photocatalytic and electrocatalytic transformations of C1 molecules involving Câ€“C coupling. Energy and Environmental Science, 2021, 14, 37-89.	30.8	110
3	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
4	Photocatalytic Câˆ’H activation and Câˆ’C coupling of monohydric alcohols. Catalysis Communications, 2021, 153, 106300.	3.3	13
5	Metal Sulfide Photocatalysts for Lignocellulose Valorization. Advanced Materials, 2021, 33, e2007129.	21.0	106
6	Tribocatalysis: challenges and perspectives. Science China Chemistry, 2021, 64, 1609-1613.	8.2	27
7	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
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	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
10	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
11	Photocatalytic transformations of lignocellulosic biomass into chemicals. Chemical Society Reviews, 2020, 49, 6198-6223.	38.1	374
12	Selectivity Control in Photocatalytic Valorization of Biomass-Derived Platform Compounds by Surface Engineering of Titanium Oxide. CheM, 2020, 6, 3038-3053.	11.7	112
13	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
14	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
15	Ligand-Controlled Photocatalysis of CdS Quantum Dots for Lignin Valorization under Visible Light. ACS Catalysis, 2019, 9, 8443-8451.	11.2	128
16	Visibleâ€Lightâ€Driven Cleavage of Câˆ’O Linkage for Lignin Valorization to Functionalized Aromatics. ChemSusChem, 2019, 12, 5023-5031.	6.8	86
17	Photoelectrocatalytic reduction of CO₂ to syngas over Ag nanoparticle modified p-Si nanowire arrays. Nanoscale, 2019, 11, 12530-12536.	5.6	36
18	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

#	Article	IF	Citations
19	Promoting electrocatalytic CO2 reduction to formate via sulfur-boosting water activation on indium surfaces. Nature Communications, 2019, 10, 892.	12.8	446
20	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
21	Selective electrocatalytic conversion of methane to fuels and chemicals. Journal of Energy Chemistry, 2018, 27, 1629-1636.	12.9	97
22	Visible light-driven Câˆ’H activation and Câ€“C coupling of methanol into ethylene glycol. Nature Communications, 2018, 9, 1181.	12.8	188
23	Solar energy-driven lignin-first approach to full utilization of lignocellulosic biomass under mild conditions. Nature Catalysis, 2018, 1, 772-780.	34.4	442
24	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
25	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
26	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
27	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
28	Photocatalytic and photoelectrocatalytic reduction of CO₂ using heterogeneous catalysts with controlled nanostructures. Chemical Communications, 2016, 52, 35-59.	4.1	508
29	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
30	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
31	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
32	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