

# Yu Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

1,743  
citations

567281

15  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

3261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Chloride Anions on the Synthesis and Enhanced Catalytic Activity of Silver Nanocoral Electrodes for CO <sub>2</sub> Electroreduction. ACS Catalysis, 2015, 5, 5349-5356.	11.2	310
2	Kirkendall Effect and Lattice Contraction in Nanocatalysts: A New Strategy to Enhance Sustainable Activity. Journal of the American Chemical Society, 2011, 133, 13551-13557.	13.7	255
3	Ordered bilayer ruthenium-platinum core-shell nanoparticles as carbon monoxide-tolerant fuel cell catalysts. Nature Communications, 2013, 4, 2466.	12.8	200
4	Elucidating Hydrogen Oxidation/Evolution Kinetics in Base and Acid by Enhanced Activities at the Optimized Pt Shell Thickness on the Ru Core. ACS Catalysis, 2015, 5, 6764-6772.	11.2	197
5	Reaction mechanism for oxygen evolution on RuO <sub>2</sub> , IrO <sub>2</sub> , and RuO <sub>2</sub> @IrO <sub>2</sub> core-shell nanocatalysts. Journal of Electroanalytical Chemistry, 2018, 819, 296-305.	3.8	141
6	Pathways to ultra-low platinum group metal catalyst loading in proton exchange membrane electrolyzers. Catalysis Today, 2016, 262, 121-132.	4.4	129
7	High Performance Pt Monolayer Catalysts Produced via Core-Catalyzed Coating in Ethanol. ACS Catalysis, 2014, 4, 738-742.	11.2	78
8	Hollow core supported Pt monolayer catalysts for oxygen reduction. Catalysis Today, 2013, 202, 50-54.	4.4	74
9	Truncated Ditetragonal Gold Prisms as Nanofacet Activators of Catalytic Platinum. Journal of the American Chemical Society, 2011, 133, 18074-18077.	13.7	66
10	Rational catalyst design for oxygen evolution under acidic conditions: strategies toward enhanced electrocatalytic performance. Journal of Materials Chemistry A, 2021, 9, 5890-5914.	10.3	65
11	Surface Proton Transfer Promotes Four-Electron Oxygen Reduction on Gold Nanocrystal Surfaces in Alkaline Solution. Journal of the American Chemical Society, 2017, 139, 7310-7317.	13.7	51
12	Temperature-Dependent Kinetics and Reaction Mechanism of Ammonia Oxidation on Pt, Ir, and PtIr Alloy Catalysts. Journal of the Electrochemical Society, 2018, 165, J3095-J3100.	2.9	49
13	Modification of CO <sub>2</sub> Reduction Activity of Nanostructured Silver Electrocatalysts by Surface Halide Anions. ACS Applied Energy Materials, 2019, 2, 102-109.	5.1	46
14	Ultralow charge-transfer resistance with ultralow Pt loading for hydrogen evolution and oxidation using Ru@Pt core-shell nanocatalysts. Scientific Reports, 2015, 5, 12220.	3.3	44
15	Shape evolution in Brust-Schiffrin synthesis of Au nanoparticles. Materials Letters, 2014, 118, 196-199.	2.6	18
16	Direct CO <sub>2</sub> electroreduction from NH <sub>4</sub> HCO <sub>3</sub> electrolyte to syngas on bromine-modified Ag catalyst. Energy, 2021, 216, 119250.	8.8	9
17	Effect of halogen-modification on Ag catalyst for CO <sub>2</sub> electrochemical reduction to syngas from NH <sub>4</sub> HCO <sub>3</sub> electrolyte. Journal of Environmental Chemical Engineering, 2021, 9, 106415.	6.7	4
18	Pt monolayer shell on hollow Pd core electrocatalysts: Scale up synthesis, structure, and activity for the oxygen reduction reaction. Journal of the Serbian Chemical Society, 2013, 78, 1983-1992.	0.8	3

#	ARTICLE	IF	CITATIONS
19	Oxygen Reduction on Gold Nanocrystal Surfaces in Alkaline Electrolyte: Evidence for Surface Proton Transfer Effects. ECS Transactions, 2018, 85, 93-110.	0.5	2
20	An optical fiber integrated optoelectrode for the photoelectrochemical detection. Optics Communications, 2022, 502, 127436.	2.1	2
21	(Invited) Temperature-Dependent Kinetic Study of Ammonia Oxidation Reaction on Gas Diffusion Electrodes in NH <sub>3</sub> -Saturated 1 M KOH Solutions. ECS Transactions, 2018, 85, 161-165.	0.5	0
22	Oxygen Reduction on Gold Nanocrystal Surfaces in Alkaline Electrolyte: Effects of Surface Proton Transfer. ECS Meeting Abstracts, 2018, , .	0.0	0