Yu Zhang

List of Publications by Year
in descending order

		567281	752698
22	1,743	15	20
papers	citations	h-index	g-index

22	22	22	3261
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An optical fiber integrated optoelectrode for the photoelectrochemical detection. Optics Communications, 2022, 502, 127436.	2.1	2
2	Direct CO2 electroreduction from NH4HCO3 electrolyte to syngas on bromine-modified Ag catalyst. Energy, 2021, 216, 119250.	8.8	9
3	Effect of halogen-modification on Ag catalyst for CO2 electrochemical reduction to syngas from NH4HCO3 electrolyte. Journal of Environmental Chemical Engineering, 2021, 9, 106415.	6.7	4
4	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
5	Modification of CO₂ Reduction Activity of Nanostructured Silver Electrocatalysts by Surface Halide Anions. ACS Applied Energy Materials, 2019, 2, 102-109.	5.1	46
6	Reaction mechanism for oxygen evolution on RuO2, IrO2, and RuO2@IrO2 core-shell nanocatalysts. Journal of Electroanalytical Chemistry, 2018, 819, 296-305.	3.8	141
7	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
8	(Invited) Temperature-Dependent Kinetic Study of Ammonia Oxidation Reaction on Gas Diffusion Electrodes in NH3-Saturated 1 M KOH Solutions. ECS Transactions, 2018, 85, 161-165.	0.5	0
9	Oxygen Reduction on Gold Nanocrystal Surfaces in Alkaline Electrolyte: Evidence for Surface Proton Transfer Effects. ECS Transactions, 2018, 85, 93-110.	0.5	2
10	Oxygen Reduction on Gold Nanocrystal Surfaces in Alkaline Electrolyte: Effects of Surface Proton Transfer. ECS Meeting Abstracts, 2018, , .	0.0	0
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	Pathways to ultra-low platinum group metal catalyst loading in proton exchange membrane electrolyzers. Catalysis Today, 2016, 262, 121-132.	4.4	129
13	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
14	Effect of Chloride Anions on the Synthesis and Enhanced Catalytic Activity of Silver Nanocoral Electrodes for CO₂ Electroreduction. ACS Catalysis, 2015, 5, 5349-5356.	11.2	310
15	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
16	High Performance Pt Monolayer Catalysts Produced via Core-Catalyzed Coating in Ethanol. ACS Catalysis, 2014, 4, 738-742.	11.2	78
17	Shape evolution in Brustâ€“Schiffrin synthesis of Au nanoparticles. Materials Letters, 2014, 118, 196-199.	2.6	18
18	Ordered bilayer rutheniumâ€“platinum core-shell nanoparticles as carbon monoxide-tolerant fuel cell catalysts. Nature Communications, 2013, 4, 2466.	12.8	200

#	Article	IF	Citations
19	Hollow core supported Pt monolayer catalysts for oxygen reduction. Catalysis Today, 2013, 202, 50-54.	4.4	74
20	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
21	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
22	Truncated Ditetragonal Gold Prisms as Nanofacet Activators of Catalytic Platinum. Journal of the American Chemical Society, 2011, 133, 18074-18077.	13.7	66