

Zeyan Liu

List of Publications by Year in descending order

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13
papers

1,701
citations

687363

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1125743

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docs citations

13
times ranked

2634
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-Engineered PtNi-O Nanostructure with Record-High Performance for Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 9046-9050.	13.7	379
2	Pt-Based Nanocrystal for Electrocatalytic Oxygen Reduction. <i>Advanced Materials</i> , 2019, 31, e1808115.	21.0	260
3	Unifying the Hydrogen Evolution and Oxidation Reactions Kinetics in Base by Identifying the Catalytic Roles of Hydroxyl-Water-Cation Adducts. <i>Journal of the American Chemical Society</i> , 2019, 141, 3232-3239.	13.7	220
4	Dominating Role of Ni ⁰ on the Interface of Ni/NiO for Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7139-7147.	8.0	206
5	Roles of Mo Surface Dopants in Enhancing the ORR Performance of Octahedral PtNi Nanoparticles. <i>Nano Letters</i> , 2018, 18, 798-804.	9.1	162
6	Beyond Extended Surfaces: Understanding the Oxygen Reduction Reaction on Nanocatalysts. <i>Journal of the American Chemical Society</i> , 2020, 142, 17812-17827.	13.7	134
7	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. <i>Matter</i> , 2019, 1, 1567-1580.	10.0	82
8	Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>Matter</i> , 2020, 3, 1774-1790.	10.0	71
9	Experimental Sabatier plot for predictive design of active and stable Pt-alloy oxygen reduction reaction catalysts. <i>Nature Catalysis</i> , 2022, 5, 513-523.	34.4	57
10	Toward Rational Design of Single-Atom Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2837-2847.	4.6	45
11	Composition tunable ternary Pt-Ni-Co octahedra for optimized oxygen reduction activity. <i>Chemical Communications</i> , 2016, 52, 11215-11218.	4.1	44
12	Stability of Platinum-Group-Metal-Based Electrocatalysts in Proton Exchange Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	25
13	1D PtCo nanowires as catalysts for PEMFCs with low Pt loading. <i>Science China Materials</i> , 2022, 65, 704-711.	6.3	16