Ruihu Lu

List of Publications by Year
in descending order

20 papers	1,269 citations	516215 16 h-index	752256 20 g-index
21 all docs	21 docs citations	21 times ranked	908 citing authors

#	Article	IF	Citations
1	Ru-doped 3D flower-like bimetallic phosphide with a climbing effect on overall water splitting. Applied Catalysis B: Environmental, 2020, 279, 119396.	10.8	251
2	Multilayer stabilization for fabricating high-loading single-atom catalysts. Nature Communications, 2020, 11, 5892.	5.8	195
3	Ultralow Ru Loading Transition Metal Phosphides as Highâ€Efficient Bifunctional Electrocatalyst for a Solarâ€toâ€Hydrogen Generation System. Advanced Energy Materials, 2020, 10, 2000814.	10.2	174
4	Ligand Modulation of Active Sites to Promote Electrocatalytic Oxygen Evolution. Advanced Materials, 2022, 34, e2200270.	11.1	108
5	Density Functional Theory for Electrocatalysis. Energy and Environmental Materials, 2022, 5, 157-185.	7.3	95
6	Coordination environments tune the activity of oxygen catalysis on single atom catalysts: A computational study. Nano Research, 2022, 15, 3073-3081.	5.8	58
7	Tunable <scp>Ruâ€Ru₂P</scp> heterostructures with charge redistribution for efficient <scp>pHâ€universal</scp> hydrogen evolution. InformaÄ•Ã-MateriÃ¡ly, 2022, 4, .	8.5	53
8	High Yield Electrosynthesis of Hydrogen Peroxide from Water Using Electrospun CaSnO₃@Carbon Fiber Membrane Catalysts with Abundant Oxygen Vacancy. Advanced Functional Materials, 2021, 31, 2100099.	7.8	52
9	Epitaxially Grown Ru Clustersâ€“Nickel Nitride Heterostructure Advances Water Electrolysis Kinetics in Alkaline and Seawater Media. Energy and Environmental Materials, 2023, 6, .	7.3	48
10	Facilitating the acidic oxygen reduction of Feâ€“Nâ€“C catalysts by fluorine-doping. Materials Horizons, 2022, 9, 417-424.	6.4	39
11	Low-coordinated cobalt arrays for efficient hydrazine electrooxidation. Energy and Environmental Science, 2022, 15, 3246-3256.	15.6	36
12	Mapping Hydrogen Evolution Activity Trends of Intermetallic Pt-Group Silicides. ACS Catalysis, 2022, 12, 2623-2631.	5.5	32
13	Establishing a theoretical insight for penta-coordinated iron-nitrogen-carbon catalysts toward oxygen reaction. Nano Research, 2022, 15, 6067-6075.	5.8	28
14	Trimetallic Sulfide Hollow Superstructures with Engineered dâ€Band Center for Oxygen Reduction to Hydrogen Peroxide in Alkaline Solution. Advanced Science, 2022, 9, e2104768.	5.6	26
15	Theoretical insights into dual-atom catalysts for the oxygen reduction reaction: the crucial role of orbital polarization. Journal of Materials Chemistry A, 2022, 10, 9150-9160.	5.2	25
16	Duetting electronic structure modulation of Ru atoms in RuSe₂@NC enables more moderate H* adsorption and water dissociation for hydrogen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 7637-7644.	5.2	22
17	Active Site Identification and Interfacial Design of a MoP/N-Doped Carbon Catalyst for Efficient Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 5486-5492.	2.5	13
18	Accelerating conversion of LiPSs on strain-induced MXene for high-performance Li-S battery. Chemical Engineering Journal, 2022, 439, 135679.	6.6	9

#	Article	IF	Citations
19	Trade-off effect of 3d transition metal doped boron nitride on anchoring polysulfides towards application in lithium-sulfur battery. Journal of Colloid and Interface Science, 2022, 616, 886-894.	5.0	4
20	Firstâ€principles investigations on the synergistic effect of Nâ€dopant and latticeâ€strain for CO 2 reduction to CO on graphene. International Journal of Quantum Chemistry, 2021, 121, e26535.	1.0	0