

Ruihu Lu

List of Publications by Year in descending order

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Version: 2024-02-01

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	Epitaxially Grown Ru Clusters@Nickel Nitride Heterostructure Advances Water Electrolysis Kinetics in Alkaline and Seawater Media. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	48
2	Density Functional Theory for Electrocatalysis. <i>Energy and Environmental Materials</i> , 2022, 5, 157-185.	7.3	95
3	Facilitating the acidic oxygen reduction of Fe@N@C catalysts by fluorine-doping. <i>Materials Horizons</i> , 2022, 9, 417-424.	6.4	39
4	Tunable $\text{Ru@Ru}_2\text{P}$ heterostructures with charge redistribution for efficient pH -universal hydrogen evolution. <i>Informa Mater</i> , 2022, 4, .	8.5	53
5	Mapping Hydrogen Evolution Activity Trends of Intermetallic Pt-Group Silicides. <i>ACS Catalysis</i> , 2022, 12, 2623-2631.	5.5	32
6	Coordination environments tune the activity of oxygen catalysis on single atom catalysts: A computational study. <i>Nano Research</i> , 2022, 15, 3073-3081.	5.8	58
7	Theoretical insights into dual-atom catalysts for the oxygen reduction reaction: the crucial role of orbital polarization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9150-9160.	5.2	25
8	Tuning electronic structure modulation of Ru atoms in $\text{RuSe}_2\text{@NC}$ enables more moderate H^* adsorption and water dissociation for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7637-7644.	5.2	22
9	Trimetallic Sulfide Hollow Superstructures with Engineered d -Band Center for Oxygen Reduction to Hydrogen Peroxide in Alkaline Solution. <i>Advanced Science</i> , 2022, 9, e2104768.	5.6	26
10	Ligand Modulation of Active Sites to Promote Electrocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2022, 34, e2200270.	11.1	108
11	Trade-off effect of 3d transition metal doped boron nitride on anchoring polysulfides towards application in lithium-sulfur battery. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 886-894.	5.0	4
12	Accelerating conversion of LiPSs on strain-induced MXene for high-performance Li-S battery. <i>Chemical Engineering Journal</i> , 2022, 439, 135679.	6.6	9
13	Establishing a theoretical insight for penta-coordinated iron-nitrogen-carbon catalysts toward oxygen reaction. <i>Nano Research</i> , 2022, 15, 6067-6075.	5.8	28
14	Low-coordinated cobalt arrays for efficient hydrazine electrooxidation. <i>Energy and Environmental Science</i> , 2022, 15, 3246-3256.	15.6	36
15	First-principles investigations on the synergistic effect of N-dopant and lattice-strain for CO_2 reduction to CO on graphene. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26535.	1.0	0
16	High Yield Electrosynthesis of Hydrogen Peroxide from Water Using Electrospun $\text{CaSnO}_3\text{@Carbon Fiber Membrane Catalysts}$ with Abundant Oxygen Vacancy. <i>Advanced Functional Materials</i> , 2021, 31, 2100099.	7.8	52
17	Active Site Identification and Interfacial Design of a MoP/N-Doped Carbon Catalyst for Efficient Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 5486-5492.	2.5	13
18	Multilayer stabilization for fabricating high-loading single-atom catalysts. <i>Nature Communications</i> , 2020, 11, 5892.	5.8	195

#	ARTICLE	IF	CITATIONS
19	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
20	Ultralow Ru Loading Transition Metal Phosphides as High-Efficient Bifunctional Electrocatalyst for a Solar-Driven Hydrogen Generation System. Advanced Energy Materials, 2020, 10, 2000814.	10.2	174