

Ying-Rui Lu

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,281
citations

471509

17
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

2543
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochar mediated uranium immobilization in magnetite rich Cu tailings subject to organic matter amendment and native plant colonization. <i>Journal of Hazardous Materials</i> , 2022, 427, 127860.	12.4	8
2	A General Strategy for Engineering Single-Metal Sites on 3D Porous N, P Co-Doped Ti ₃ C ₂ T _X MXene. <i>ACS Nano</i> , 2022, 16, 4116-4125.	14.6	63
3	Rhizosphere Drives Biotite-Like Mineral Weathering and Secondary Fe-Si Mineral Formation in Fe Ore Tailings. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 618-631.	2.7	16
4	Controlling Ni ²⁺ from the Surface to the Bulk by a New Cathode Electrolyte Interphase Formation on a Ni-Rich Layered Cathode in High-Safe and High-Energy-Density Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7355-7369.	8.0	20
5	High-Performance NaK ₂ Li[Li ₃ SiO ₄] ₄ :Eu Green Phosphor for Backlighting Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2021, 33, 1893-1899.	6.7	31
6	AuPd Nanicosahedra: Atomic-Level Surface Modulation for Optimization of Electrocatalytic and Photocatalytic Energy Conversion. <i>ACS Applied Energy Materials</i> , 2021, 4, 2652-2662.	5.1	4
7	Paired Ru-Mo ensemble for efficient and stable alkaline hydrogen evolution reaction. <i>Nano Energy</i> , 2021, 82, 105767.	16.0	86
8	Tuning Charge Distribution of Fe ₄ via External N for Enhanced Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021, 11, 6304-6315.	11.2	114
9	Acidophilic Iron- and Sulfur-Oxidizing Bacteria, <i>Acidithiobacillus ferrooxidans</i> , Drives Alkaline pH Neutralization and Mineral Weathering in Fe Ore Tailings. <i>Environmental Science & Technology</i> , 2021, 55, 8020-8034.	10.0	24
10	Bioaugmentation with <i>Acidithiobacillus</i> species accelerates mineral weathering and formation of secondary mineral cements for hardpan development in sulfidic Pb-Zn tailings. <i>Journal of Hazardous Materials</i> , 2021, 411, 124988.	12.4	13
11	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO ₂ Reduction. <i>ACS Catalysis</i> , 2021, 11, 7292-7301.	11.2	51
12	Crystal and Electronic Structure Modification of Synthetic Perryite Minerals: A Facile Phase Transformation Strategy to Boost the Oxygen Evolution Reaction. <i>Inorganic Chemistry</i> , 2021, 60, 13607-13614.	4.0	4
13	Spontaneously Sn-Doped Bi/BiO _x Core-Shell Nanowires Toward High-Performance CO ₂ Electroreduction to Liquid Fuel. <i>Nano Letters</i> , 2021, 21, 6907-6913.	9.1	69
14	Chemodiversity of Dissolved Organic Matter and Its Molecular Changes Driven by Rhizosphere Activities in Fe Ore Tailings Undergoing Eco-Engineered Pedogenesis. <i>Environmental Science & Technology</i> , 2021, 55, 13045-13060.	10.0	11
15	Black phosphorus composites with engineered interfaces for high-rate high-capacity lithium storage. <i>Science</i> , 2020, 370, 192-197.	12.6	336
16	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. <i>CheM</i> , 2020, 6, 3440-3454.	11.7	231
17	Iron phthalocyanine with coordination induced electronic localization to boost oxygen reduction reaction. <i>Nature Communications</i> , 2020, 11, 4173.	12.8	358
18	Electronic structure inspired a highly robust electrocatalyst for the oxygen-evolution reaction. <i>Chemical Communications</i> , 2020, 56, 8071-8074.	4.1	15

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19	Dynamic active-site generation of atomic iridium stabilized on nanoporous metal phosphides for water oxidation. <i>Nature Communications</i> , 2020, 11, 2701.	12.8	204
20	Enhancing CO ₂ reduction by suppressing hydrogen evolution with polytetrafluoroethylene protected copper nanoneedles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15936-15941.	10.3	78
21	Geochemical and mineralogical changes in magnetite Fe-ore tailings induced by biomass organic matter amendment. <i>Science of the Total Environment</i> , 2020, 724, 138196.	8.0	22
22	Organic Matter Amendment and Plant Colonization Drive Mineral Weathering, Organic Carbon Sequestration, and Water-Stable Aggregation in Magnetite Fe Ore Tailings. <i>Environmental Science & Technology</i> , 2019, 53, 13720-13731.	10.0	48
23	Deficiencies of secondary Fe (oxy)hydroxides associated with phyllosilicates and organic carbon limit the formation of water-stable aggregates in Fe-ore tailings. <i>Chemical Geology</i> , 2019, 523, 73-87.	3.3	19
24	Single platinum atoms embedded in nanoporous cobalt selenide as electrocatalyst for accelerating hydrogen evolution reaction. <i>Nature Communications</i> , 2019, 10, 1743.	12.8	430
25	Microstructural characteristics of naturally formed hardpan capping sulfidic copper-lead-zinc tailings. <i>Environmental Pollution</i> , 2018, 242, 1500-1509.	7.5	20
26	Turn the Trash into Treasure: Egg-White-Derived Single-Atom Electrocatalysts Boost Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	6