Ying-Rui Lu

List of Publications by Year
in descending order

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	Single platinum atoms embedded in nanoporous cobalt selenide as electrocatalyst for accelerating hydrogen evolution reaction. Nature Communications, 2019, 10, 1743.	12.8	430
2	Iron phthalocyanine with coordination induced electronic localization to boost oxygen reduction reaction. Nature Communications, 2020, 11, 4173.	12.8	358
3	Black phosphorus composites with engineered interfaces for high-rate high-capacity lithium storage. Science, 2020, 370, 192-197.	12.6	336
4	Identification of the Electronic and Structural Dynamics of Catalytic Centers in Single-Fe-Atom Material. CheM, 2020, 6, 3440-3454.	11.7	231
5	Dynamic active-site generation of atomic iridium stabilized on nanoporous metal phosphides for water oxidation. Nature Communications, 2020, 11, 2701.	12.8	204
6	Tuning Charge Distribution of FeN₄ via External N for Enhanced Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 6304-6315.	11.2	114
7	Paired Ruâ€'Oâ€'Mo ensemble for efficient and stable alkaline hydrogen evolution reaction. Nano Energy, 2021, 82, 105767.	16.0	86
8	Enhancing CO₂ reduction by suppressing hydrogen evolution with polytetrafluoroethylene protected copper nanoneedles. Journal of Materials Chemistry A, 2020, 8, 15936-15941.	10.3	78
9	Spontaneously Sn-Doped Bi/BiO_x Coreâ€"Shell Nanowires Toward High-Performance CO₂ Electroreduction to Liquid Fuel. Nano Letters, 2021, 21, 6907-6913.	9.1	69
10	A General Strategy for Engineering Single-Metal Sites on 3D Porous N, P Co-Doped Ti₃C₂T_X MXene. ACS Nano, 2022, 16, 4116-4125.	14.6	63
11	Unveiling the In Situ Generation of a Monovalent Fe(I) Site in the Single-Fe-Atom Catalyst for Electrochemical CO₂ Reduction. ACS Catalysis, 2021, 11, 7292-7301.	11.2	51
12	Organic Matter Amendment and Plant Colonization Drive Mineral Weathering, Organic Carbon Sequestration, and Water-Stable Aggregation in Magnetite Fe Ore Tailings. Environmental Science & Technology, 2019, 53, 13720-13731.	10.0	48
13	High-Performance NaK₂Li[Li₃SiO₄]₄:Eu Green Phosphor for Backlighting Light-Emitting Diodes. Chemistry of Materials, 2021, 33, 1893-1899.	6.7	31
14	Acidophilic Iron- and Sulfur-Oxidizing Bacteria, Acidithiobacillus ferrooxidans, Drives Alkaline pH Neutralization and Mineral Weathering in Fe Ore Tailings. Environmental Science & Technology, 2021, 55, 8020-8034.	10.0	24
15	Geochemical and mineralogical changes in magnetite Fe-ore tailings induced by biomass organic matter amendment. Science of the Total Environment, 2020, 724, 138196.	8.0	22
16	Microstructural characteristics of naturally formed hardpan capping sulfidic copper-lead-zinc tailings. Environmental Pollution, 2018, 242, 1500-1509.	7.5	20
17	Controlling Ni²⁺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. ACS Applied Materials & Interfaces, 2021, 13, 7355-7369.	8.0	20
18	Deficiencies of secondary Fe (oxy)hydroxides associated with phyllosilicates and organic carbon limit the formation of water-stable aggregates in Fe-ore tailings. Chemical Geology, 2019, 523, 73-87.	3.3	19

#	Article	IF	Citations
19	Rhizosphere Drives Biotite-Like Mineral Weathering and Secondary Feâ€“Si Mineral Formation in Fe Ore Tailings. ACS Earth and Space Chemistry, 2021, 5, 618-631.	2.7	16
20	Electronic structure inspired a highly robust electrocatalyst for the oxygen-evolution reaction. Chemical Communications, 2020, 56, 8071-8074.	4.1	15
21	Bioaugmentation with Acidithiobacillus species accelerates mineral weathering and formation of secondary mineral cements for hardpan development in sulfidic Pb-Zn tailings. Journal of Hazardous Materials, 2021, 411, 124988.	12.4	13
22	Chemodiversity of Dissolved Organic Matter and Its Molecular Changes Driven by Rhizosphere Activities in Fe Ore Tailings Undergoing Eco-Engineered Pedogenesis. Environmental Science & Technology, 2021, 55, 13045-13060.	10.0	11
23	Biochar mediated uranium immobilization in magnetite rich Cu tailings subject to organic matter amendment and native plant colonization. Journal of Hazardous Materials, 2022, 427, 127860.	12.4	8
24	Turn the Trash into Treasure: Egg-White-Derived Single-Atom Electrocatalysts Boost Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	6
25	AuPd Nanoicosahedra: Atomic-Level Surface Modulation for Optimization of Electrocatalytic and Photocatalytic Energy Conversion. ACS Applied Energy Materials, 2021, 4, 2652-2662.	5.1	4
26	Crystal and Electronic Structure Modification of Synthetic Perryite Minerals: A Facile Phase Transformation Strategy to Boost the Oxygen Evolution Reaction. Inorganic Chemistry, 2021, 60, 13607-13614.	4.0	4