

Xiahui Yao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/602125/publications.pdf>

Version: 2024-02-01

23
papers

2,410
citations

331670

21
h-index

580821

25
g-index

27
all docs

27
docs citations

27
times ranked

4034
citing authors

#	ARTICLE	IF	CITATIONS
1	Enabling unassisted solar water splitting by iron oxide and silicon. Nature Communications, 2015, 6, 7447.	12.8	429
2	Li metal deposition and stripping in a solid-state battery via Coble creep. Nature, 2020, 578, 251-255.	27.8	333
3	Gradient Li-rich oxide cathode particles immunized against oxygen release by a molten salt treatment. Nature Energy, 2019, 4, 1049-1058.	39.5	248
4	Why Do Lithium-Oxygen Batteries Fail: Parasitic Chemical Reactions and Their Synergistic Effect. Angewandte Chemie - International Edition, 2016, 55, 11344-11353.	13.8	186
5	Three Dimensionally Ordered Mesoporous Carbon as a Stable, High-Performance Li-O ₂ Battery Cathode. Angewandte Chemie - International Edition, 2015, 54, 4299-4303.	13.8	175
6	Comparison of heterogenized molecular and heterogeneous oxide catalysts for photoelectrochemical water oxidation. Energy and Environmental Science, 2016, 9, 1794-1802.	30.8	136
7	Hematite-Based Solar Water Splitting in Acidic Solutions: Functionalization by Mono- and Multilayers of Iridium Oxygen-Evolution Catalysts. Angewandte Chemie - International Edition, 2015, 54, 11428-11432.	13.8	121
8	Selective Deposition of Ru Nanoparticles on TiSi ₂ Nanonet and Its Utilization for Li ₂ O ₂ Formation and Decomposition. Journal of the American Chemical Society, 2014, 136, 8903-8906.	13.7	106
9	Protonic solid-state electrochemical synapse for physical neural networks. Nature Communications, 2020, 11, 3134.	12.8	82
10	Achieving Low Overpotential Li-O ₂ Battery Operations by Li ₂ O ₂ Decomposition through One-Electron Processes. Nano Letters, 2015, 15, 8371-8376.	9.1	70
11	Cathodically Stable Li-O ₂ Battery Operations Using Water-in-Salt Electrolyte. Chem, 2018, 4, 1345-1358.	11.7	69
12	Free-standing porous carbon electrodes derived from wood for high-performance Li-O ₂ battery applications. Nano Research, 2017, 10, 4318-4326.	10.4	64
13	Uranium In Situ Electrolytic Deposition with a Reusable Functional Graphene-Foam Electrode. Advanced Materials, 2021, 33, e2102633.	21.0	52
14	Photo-Induced Performance Enhancement of Tantalum Nitride for Solar Water Oxidation. Joule, 2017, 1, 831-842.	24.0	46
15	Facet-Dependent Kinetics and Energetics of Hematite for Solar Water Oxidation Reactions. ACS Applied Materials & Interfaces, 2019, 11, 5616-5622.	8.0	46
16	A rechargeable non-aqueous Mg-Br ₂ battery. Nano Energy, 2016, 28, 440-446.	16.0	36
17	Functionalizing Titanium Disilicide Nanonets with Cobalt Oxide and Palladium for Stable Li Oxygen Battery Operations. ACS Applied Materials & Interfaces, 2015, 7, 21948-21955.	8.0	34
18	Warum Lithium-Sauerstoff-Batterien versagen: Parasitäre chemische Reaktionen und ihr synergistischer Effekt. Angewandte Chemie, 2016, 128, 11514-11524.	2.0	22

#	ARTICLE	IF	CITATIONS
19	Enabling rechargeable non-aqueous Mg ²⁺ battery operations with dual redox mediators. <i>Chemical Communications</i> , 2016, 52, 13753-13756.	4.1	22
20	Chemical and structural origin of hole states in yttria-stabilized zirconia. <i>Acta Materialia</i> , 2021, 203, 116487.	7.9	15
21	Development of a novel type of composite cathode material for proton-conducting solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 5940-5945.	7.1	13
22	Kinetic Rejuvenation of Li-Rich Li-Ion Battery Cathodes upon Oxygen Redox. <i>ACS Applied Energy Materials</i> , 2020, 3, 7931-7943.	5.1	12
23	Synthesizing Functional Ceramic Powders for Solid Oxide Cells in Minutes through Thermal Shock. <i>ACS Energy Letters</i> , 2022, 7, 1223-1229.	17.4	6