

Yun Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,720
citations

279798

23
h-index

526287

27
g-index

28
all docs

28
docs citations

28
times ranked

2648
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of high temperature co-electrolysis of H ₂ O and CO ₂ to produce sustainable fuels using solid oxide electrolysis cells (SOECs): advanced materials and technology. Chemical Society Reviews, 2017, 46, 1427-1463.	38.1	515
2	A review of composite solid-state electrolytes for lithium batteries: fundamentals, key materials and advanced structures. Chemical Society Reviews, 2020, 49, 8790-8839.	38.1	461
3	Controlling cation segregation in perovskite-based electrodes for high electro-catalytic activity and durability. Chemical Society Reviews, 2017, 46, 6345-6378.	38.1	246
4	Energy related CO ₂ conversion and utilization: Advanced materials/nanomaterials, reaction mechanisms and technologies. Nano Energy, 2017, 40, 512-539.	16.0	221
5	Heterointerface engineering for enhancing the electrochemical performance of solid oxide cells. Energy and Environmental Science, 2020, 13, 53-85.	30.8	178
6	Uncovering the Effect of Lattice Strain and Oxygen Deficiency on Electrocatalytic Activity of Perovskite Cobaltite Thin Films. Advanced Science, 2019, 6, 1801898.	11.2	136
7	Modulating Metal-Organic Frameworks as Advanced Oxygen Electrocatalysts. Advanced Energy Materials, 2021, 11, 2003291.	19.5	105
8	Electrolyte Design for Lithium Metal Anode-Based Batteries Toward Extreme Temperature Application. Advanced Science, 2021, 8, e2101051.	11.2	95
9	Enhancing coking resistance of Ni/YSZ electrodes: In situ characterization, mechanism research, and surface engineering. Nano Energy, 2019, 62, 64-78.	16.0	75
10	Solid Oxide Electrolysis of H ₂ O and CO ₂ to Produce Hydrogen and Low-Carbon Fuels. Electrochemical Energy Reviews, 2021, 4, 508-517.	25.5	69
11	Materials Engineering toward Durable Electrocatalysts for Proton Exchange Membrane Fuel Cells. Advanced Energy Materials, 2022, 12, .	19.5	61
12	Oxygen reduction kinetic enhancements of intermediate-temperature SOFC cathodes with novel Nd _{0.5} Sr _{0.5} CoO _{3-δ} /Nd _{0.8} Sr _{1.2} CoO _{4-δ} heterointerfaces. Nano Energy, 2018, 51, 711-720.	16.0	60
13	Bioinspired Tough Solid-State Electrolyte for Flexible Ultralong-Life Zinc-Air Battery. Advanced Materials, 2022, 34, e2110585.	21.0	58
14	Emerging Trends in Sustainable CO ₂ -Management Materials. Advanced Materials, 2022, 34, e2201547.	21.0	52
15	2D Materials for All-Solid-State Lithium Batteries. Advanced Materials, 2022, 34, e2108079.	21.0	45
16	Hierarchically Nanostructured Solid-State Electrolyte for Flexible Rechargeable Zinc-Air Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	43
17	Micro-Nanohoneycomb Solid Oxide Electrolysis Cell Anodes with Ultralarge Current Tolerance. Advanced Energy Materials, 2018, 8, 1802203.	19.5	40
18	Eutectic Etching toward In-Plane Porosity Manipulation of Cl-Terminated MXene for High-Performance Dual-Ion Battery Anode. Advanced Energy Materials, 2022, 12, 2102493.	19.5	37

#	ARTICLE	IF	CITATIONS
19	Controlling crystal orientation in multilayered heterostructures toward high electro-catalytic activity for oxygen reduction reaction. <i>Nano Energy</i> , 2019, 62, 521-529.	16.0	35
20	Engineering Electrochemical Surface for Efficient Carbon Dioxide Upgrade. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	33
21	Impact of Strain-Induced Changes in Defect Chemistry on Catalytic Activity of $\text{Nd}_{2}\text{NiO}_{4+\text{T}}$ Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36926-36932.	8.0	31
22	Directly visualizing and exploring local heterointerface with high electro-catalytic activity. <i>Nano Energy</i> , 2020, 78, 105236.	16.0	31
23	Segregation Induced Self-Assembly of Highly Active Perovskite for Rapid Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2018, 8, 1801893.	19.5	30
24	Enhanced oxygen reduction kinetics by a porous heterostructured cathode for intermediate temperature solid oxide fuel cells. <i>Energy and AI</i> , 2020, 2, 100027.	10.6	17
25	A Novel Solid Oxide Electrolysis Cell with Micro-/Nano Channel Anode for Electrolysis at Ultra-High Current Density over 5 A cm^{-2} . <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	17
26	Hierarchically Nanostructured Solid-State Electrolyte for Flexible Rechargeable Zinc-Air Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	13
27	Solid oxide fuel cell system for automobiles. <i>International Journal of Green Energy</i> , 0, , 1-10.	3.8	9
28	Measurement of oxygen reduction/evolution kinetics enhanced $(\text{La,Sr})\text{CoO}_3/(\text{La,Sr})_2\text{CoO}_4$ hetero-structure oxygen electrode in operating temperature for SOCs. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19102-19112.	7.1	7