Kaiyue Zhu

List of Publications by Year
in descending order

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Version: 2024-02-01

22 papers	2,371 citations	430754 18 h-index	677027 22 g-index
22 all docs	22 docs citations	22 times ranked	2643 citing authors

#	Article	IF	Citations
1	The roles of oxygen vacancies in electrocatalytic oxygen evolution reaction. Nano Energy, 2020, 73, 104761.	8.2	465
2	Application of In Situ Techniques for the Characterization of NiFeâ€Based Oxygen Evolution Reaction (OER) Electrocatalysts. Angewandte Chemie - International Edition, 2019, 58, 1252-1265.	7.2	443
3	NaCa_{0.6}V₆O₁₆Â·3H₂O as an Ultraâ€Stable Cathode for Znâ€Ion Batteries: The Roles of Preâ€Inserted Dualâ€Cations and Structural Water in V₃O₈ Layer. Advanced Energy Materials, 2019, 9, 1901968.	10.2	196
4	Synergistic H+/Zn2+ dual ion insertion mechanism in high-capacity and ultra-stable hydrated VO2 cathode for aqueous Zn-ion batteries. Energy Storage Materials, 2020, 29, 60-70.	9.5	157
5	A High Capacity Bilayer Cathode for Aqueous Zn-Ion Batteries. ACS Nano, 2019, 13, 14447-14458.	7.3	148
6	Perovskites decorated with oxygen vacancies and Feâ€“Ni alloy nanoparticles as high-efficiency electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 19836-19845.	5.2	141
7	Unraveling the role of structural water in bilayer V₂O₅ during Zn²⁺-intercalation: insights from DFT calculations. Journal of Materials Chemistry A, 2019, 7, 5612-5620.	5.2	132
8	Unique role of MÃ¶ssbauer spectroscopy in assessing structural features of heterogeneous catalysts. Applied Catalysis B: Environmental, 2018, 224, 518-532.	10.8	83
9	Atomic-scale topochemical preparation of crystalline Fe³⁺-doped Î²-Ni(OH)₂ for an ultrahigh-rate oxygen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 7753-7758.	5.2	80
10	Understanding the Dissolution and Phase Transformation Mechanisms in Aqueous Zn/Î±-V₂O₅ Batteries. Chemistry of Materials, 2021, 33, 4089-4098.	3.2	74
11	Reversible Molecular and Ionic Storage Mechanisms in High-Performance Zn_{0.1}V₂O₅Â·nH₂O Xerogel Cathode for Aqueous Zn-Ion Batteries. ACS Nano, 2021, 15, 10678-10688.	7.3	68
12	Oxygen evolution reaction over Fe site of BaZr x Fe 1-x O 3-Î´ perovskite oxides. Electrochimica Acta, 2017, 241, 433-439.	2.6	67
13	Electrode Materials for Practical Rechargeable Aqueous Znâ€Ion Batteries: Challenges and Opportunities. ChemElectroChem, 2020, 7, 2714-2734.	1.7	54
14	A â€œcopolymer-co-morphologyâ€•conception for shape-controlled synthesis of Prussian blue analogues and as-derived spinel oxides. Nanoscale, 2016, 8, 2333-2342.	2.8	53
15	A high-voltage activated high-erformance cathode for aqueous Zn-ion batteries. Energy Storage Materials, 2021, 38, 473-481.	9.5	53
16	Layered Fe-Substituted LiNiO₂ Electrocatalysts for High-Efficiency Oxygen Evolution Reaction. ACS Energy Letters, 2017, 2, 1654-1660.	8.8	46
17	Enhancement of oxygen evolution performance through synergetic action between NiFe metal core and NiFeOx shell. Chemical Communications, 2016, 52, 11803-11806.	2.2	40
18	Inâ€situâ€Methoden zur Charakterisierung elektrochemischer NiFeâ€Sauerstoffentwicklungskatalysatoren. Angewandte Chemie, 2019, 131, 1264-1277.	1.6	21

#	Article	IF	Citations
19	Boosting the oxygen evolution reaction through migrating active sites from the bulk to surface of perovskite oxides. Journal of Energy Chemistry, 2022, 69, 434-441.	7.1	19
20	Enhancing activity and stability of Co-MOF-74 for oxygen evolution reaction by wrapping polydopamine. Electrochimica Acta, 2022, 416, 140293.	2.6	19
21	Enhanced performance of solid oxide fuel cells by introducing a transition layer between nanostructured cathode and electrolyte. International Journal of Hydrogen Energy, 2015, 40, 501-508.	3.8	7
22	Understanding the Role of Graphene in Hydrated Layered V-Oxide Based Cathodes for Rechargeable Aqueous Zn-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 070515.	1.3	5