

Kaiyue Zhu

List of Publications by Year in descending order

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22
papers

2,371
citations

430754

18
h-index

677027

22
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22
all docs

22
docs citations

22
times ranked

2643
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting the oxygen evolution reaction through migrating active sites from the bulk to surface of perovskite oxides. <i>Journal of Energy Chemistry</i> , 2022, 69, 434-441.	7.1	19
2	Enhancing activity and stability of Co-MOF-74 for oxygen evolution reaction by wrapping polydopamine. <i>Electrochimica Acta</i> , 2022, 416, 140293.	2.6	19
3	Understanding the Dissolution and Phase Transformation Mechanisms in Aqueous Zn _{1±V} /V ₂ O ₅ Batteries. <i>Chemistry of Materials</i> , 2021, 33, 4089-4098.	3.2	74
4	Reversible Molecular and Ionic Storage Mechanisms in High-Performance Zn _{0.1} /V ₂ O ₅ ·nH ₂ O Xerogel Cathode for Aqueous Zn-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 10678-10688.	7.3	68
5	A high-voltage activated high-performance cathode for aqueous Zn-ion batteries. <i>Energy Storage Materials</i> , 2021, 38, 473-481.	9.5	53
6	Understanding the Role of Graphene in Hydrated Layered V-Oxide Based Cathodes for Rechargeable Aqueous Zn-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070515.	1.3	5
7	Synergistic H ⁺ /Zn ²⁺ dual ion insertion mechanism in high-capacity and ultra-stable hydrated VO ₂ cathode for aqueous Zn-ion batteries. <i>Energy Storage Materials</i> , 2020, 29, 60-70.	9.5	157
8	Electrode Materials for Practical Rechargeable Aqueous Zn-Ion Batteries: Challenges and Opportunities. <i>ChemElectroChem</i> , 2020, 7, 2714-2734.	1.7	54
9	The roles of oxygen vacancies in electrocatalytic oxygen evolution reaction. <i>Nano Energy</i> , 2020, 73, 104761.	8.2	465
10	In-situ Methoden zur Charakterisierung elektrochemischer NiFe-basierender Sauerstoffentwicklungskatalysatoren. <i>Angewandte Chemie</i> , 2019, 131, 1264-1277.	1.6	21
11	Application of In Situ Techniques for the Characterization of NiFe-Based Oxygen Evolution Reaction (OER) Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1252-1265.	7.2	443
12	NaCa _{0.6} /V ₆ O ₁₆ ·3H ₂ O as an Ultra-Stable Cathode for Zn-Ion Batteries: The Roles of Pre-Inserted Dual Cations and Structural Water in V ₃ O ₈ Layer. <i>Advanced Energy Materials</i> , 2019, 9, 1901968.	10.2	196
13	Unraveling the role of structural water in bilayer V ₂ O ₅ during Zn ²⁺ -intercalation: insights from DFT calculations. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5612-5620.	5.2	132
14	A High Capacity Bilayer Cathode for Aqueous Zn-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 14447-14458.	7.3	148
15	Unique role of Mössbauer spectroscopy in assessing structural features of heterogeneous catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 518-532.	10.8	83
16	Oxygen evolution reaction over Fe site of BaZr _x Fe _{1-x} O _{3-δ} perovskite oxides. <i>Electrochimica Acta</i> , 2017, 241, 433-439.	2.6	67
17	Layered Fe-Substituted LiNiO ₂ Electrocatalysts for High-Efficiency Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , 2017, 2, 1654-1660.	8.8	46
18	Atomic-scale topochemical preparation of crystalline Fe ³⁺ -doped β-Ni(OH) ₂ for an ultrahigh-rate oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7753-7758.	5.2	80

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19	Perovskites decorated with oxygen vacancies and Fe-Ni alloy nanoparticles as high-efficiency electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19836-19845.	5.2	141
20	Enhancement of oxygen evolution performance through synergetic action between NiFe metal core and NiFeOx shell. <i>Chemical Communications</i> , 2016, 52, 11803-11806.	2.2	40
21	A "copolymer-co-morphology" conception for shape-controlled synthesis of Prussian blue analogues and as-derived spinel oxides. <i>Nanoscale</i> , 2016, 8, 2333-2342.	2.8	53
22	Enhanced performance of solid oxide fuel cells by introducing a transition layer between nanostructured cathode and electrolyte. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 501-508.	3.8	7