

# Kaiyu Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,123  
citations

623734

14  
h-index

610901

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1081  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous hollow carbon spheres boosted, integrated high performance aqueous Zn-Ion energy storage. <i>Energy Storage Materials</i> , 2020, 25, 858-865.	18.0	289
2	Rational design of nitrogen doped hierarchical porous carbon for optimized zinc-ion hybrid supercapacitors. <i>Nano Research</i> , 2019, 12, 2835-2841.	10.4	144
3	Ultra-highly stable zinc metal anode via 3D-printed g-C <sub>3</sub> N <sub>4</sub> modulating interface for long life energy storage systems. <i>Chemical Engineering Journal</i> , 2021, 403, 126425.	12.7	123
4	Oxide cathodes for sodium-ion batteries: Designs, challenges, and perspectives. , 2022, 4, 170-199.		76
5	A P2-type Na <sub>0.44</sub> Mn <sub>0.6</sub> Ni <sub>0.3</sub> Cu <sub>0.1</sub> O <sub>2</sub> cathode material with high energy density for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12582-12588.	10.3	52
6	Highly dispersed Fe-N <sub>x</sub> active sites on Graphitic-N dominated porous carbon for synergetic catalysis of oxygen reduction reaction. <i>Carbon</i> , 2021, 171, 1-9.	10.3	46
7	Rational modulation of emerging MXene materials for zinc-ion storage. , 2022, 4, 60-76.		46
8	Single-phase P2-type layered oxide with Cu-substitution for sodium ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 43, 148-154.	12.9	45
9	Advanced Zn-I <sub>2</sub> Battery with Excellent Cycling Stability and Good Rate Performance by a Multifunctional Iodine Host. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 8955-8962.	8.0	38
10	Facile preparation of ultrafine Ti <sub>4</sub> O <sub>7</sub> nanoparticle-embedded porous carbon for high areal capacity lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20083-20092.	10.3	35
11	Three-dimensional TiO <sub>2</sub> -B nanotubes/carbon nanotubes intertwined network as sulfur hosts for high performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2018, 400, 23-30.	7.8	35
12	An inactive metal supported oxide cathode material with high rate capability for sodium ion batteries. <i>Energy Storage Materials</i> , 2019, 20, 263-268.	18.0	32
13	Tuning morphology and structure of Fe-N-C catalyst for ultra-high oxygen reduction reaction activity. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6380-6390.	7.1	22
14	Na <sup>+</sup> /vacancies promise excellent electrochemical properties for sodium ion batteries. <i>Chemical Engineering Journal</i> , 2020, 383, 123087.	12.7	21
15	Benefits of Copper and Magnesium Cosubstitution in Na <sub>0.5</sub> Mn <sub>0.6</sub> Ni <sub>0.4</sub> O <sub>2</sub> as a Superior Cathode for Sodium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 844-851.	5.1	20
16	Iron polyphthalocyanine-derived ternary-balanced Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>3</sub> N/Fe-N-C@PC as a high-performance electrocatalyst for the oxygen reduction reaction. <i>Science China Materials</i> , 2021, 64, 2987-2996.	6.3	16
17	A Novel Cathode Based on Selenium Confined in Biomass Carbon and Graphene Oxide for Potassium-Selenium Battery. <i>ChemElectroChem</i> , 2020, 7, 4477-4483.	3.4	14
18	Nanoparticles Assembled Microspheres as a High-Rate Cathode Material for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A10-A14.	2.9	11

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19	Engineering Porous Quasi-Spherical Fe <sup>3+</sup> /N-C Nanocatalysts with Robust Oxygen Reduction Performance for Zn-Air Battery Application. <i>ChemNanoMat</i> , 2020, 6, 1782-1788.	2.8	11
20	Bimetal-organic-framework derived CoTiO <sub>3</sub> /C hexagonal micro-prisms as high-performance anode materials for metal ion batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5760-5768.	5.9	10
21	Copper surface doping to improve the structure and surface properties of manganese-rich cathode materials for sodium ion batteries. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2374-2379.	5.9	8
22	Investigation on the effect of Cu substitution on structure and Na-ion kinetics of layered P2-Na <sub>0.44</sub> Mn <sub>0.6</sub> Ni <sub>0.4</sub> O <sub>2</sub> cathode material. <i>Solid State Ionics</i> , 2019, 329, 149-154.	2.7	7
23	Calcium-intercalated birnessite MnO <sub>2</sub> anchored on carbon nanotubes as high-performance cathodes for aqueous zinc-ion batteries. <i>Dalton Transactions</i> , 2022, 51, 9477-9485.	3.3	7
24	A Zn ion hybrid capacitor with enhanced energy density for anode-free. <i>Journal of Power Sources</i> , 2022, 518, 230740.	7.8	6
25	Novel Energy Storage Center for High-Performance Rechargeable Aqueous Hybrid Zinc Energy Storage. <i>Energy &amp; Fuels</i> , 2021, 35, 5352-5359.	5.1	5
26	A monocrystalline orthorhombic Na <sub>0.44</sub> Mn <sub>0.9</sub> Li <sub>0.1</sub> O <sub>2</sub> cathode with outstanding stability and negligible structural strain for sodium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2844-2853.	6.0	4