

# Zhiwei Liu

## List of Publications by Year in descending order

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35  
papers

1,857  
citations

279487

23  
h-index

360668

35  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2279  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bamboo-Like Hollow Tubes with MoS <sub>2</sub> /N-Doped Carbon Interfaces Boost Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1803409.	7.8	263
2	Metallic Octahedral CoSe <sub>2</sub> Threaded by N-Doped Carbon Nanotubes: A Flexible Framework for High-Performance Potassium-Ion Batteries. <i>Advanced Science</i> , 2018, 5, 1800782.	5.6	198
3	A High-Energy Aqueous Aluminum-Manganese Battery. <i>Advanced Functional Materials</i> , 2019, 29, 1905228.	7.8	122
4	High-throughput fabrication of 3D N-doped graphenic framework coupled with Fe <sub>3</sub> C@porous graphite carbon for ultrastable potassium ion storage. <i>Energy Storage Materials</i> , 2019, 22, 185-193.	9.5	91
5	Bifunctional biomass-derived 3D nitrogen-doped porous carbon for oxygen reduction reaction and solid-state supercapacitor. <i>Applied Surface Science</i> , 2019, 465, 303-312.	3.1	89
6	Zero-strain K <sub>0.6</sub> Mn <sub>1</sub> F <sub>2.7</sub> hollow nanocubes for ultrastable potassium ion storage. <i>Energy and Environmental Science</i> , 2018, 11, 3033-3042.	15.6	87
7	Multirole organic-induced scalable synthesis of a mesoporous MoS <sub>2</sub> -monolayer/carbon composite for high-performance lithium and potassium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11147-11153.	5.2	77
8	Chemically bubbled hollow Fe <sub>x</sub> O nanospheres anchored on 3D N-doped few-layer graphene architecture as a performance-enhanced anode material for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 744-754.	5.2	74
9	Thickness-control of ultrathin bimetallic Fe-Mo selenide@N-doped carbon core/shell "nanocrisps" for high-performance potassium-ion batteries. <i>Applied Materials Today</i> , 2018, 13, 344-351.	2.3	69
10	The multi-yolk/shell structure of FeP@foam-like graphenic scaffolds: strong P-C bonds and electrolyte- and binder-optimization boost potassium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15673-15682.	5.2	69
11	Scalable synthesis of VN quantum dots encapsulated in ultralarge pillared N-doped mesoporous carbon microsheets for superior potassium storage. <i>Energy Storage Materials</i> , 2019, 18, 43-50.	9.5	69
12	Hierarchical two-atom-layered WSe <sub>2</sub> /C ultrathin crumpled nanosheets assemblies: Engineering the interlayer spacing boosts potassium-ion storage. <i>Energy Storage Materials</i> , 2021, 36, 309-317.	9.5	67
13	A synergetic strategy for an advanced electrode with Fe <sub>3</sub> O <sub>4</sub> embedded in a 3D N-doped porous graphene framework and a strong adhesive binder for lithium/potassium ion batteries with an ultralong cycle lifespan. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19430-19441.	5.2	64
14	Advances and perspectives on transitional metal layered oxides for potassium-ion battery. <i>Energy Storage Materials</i> , 2021, 34, 211-228.	9.5	55
15	Carbon-encapsulated ultrathin MoS <sub>2</sub> nanosheets epitaxially grown on porous metallic TiNb <sub>2</sub> O <sub>6</sub> microspheres with unsaturated oxygen atoms for superior potassium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5760-5768.	5.2	54
16	Tuning Metallic Co <sub>0.85</sub> Se Quantum Dots/Carbon Hollow Polyhedrons with Tertiary Hierarchical Structure for High-Performance Potassium Ion Batteries. <i>Nano-Micro Letters</i> , 2019, 11, 96.	14.4	51
17	Collaborative Design of Hollow Nanocubes, In Situ Cross-Linked Binder, and Amorphous Void@SiO <sub>x</sub> @C as a Three-Pronged Strategy for Ultrastable Lithium Storage. <i>Small</i> , 2020, 16, e1905736.	5.2	43
18	Facile preparation of hexagonal WO <sub>3</sub> ·0.33H <sub>2</sub> O/C nanostructures and its electrochemical properties for lithium-ion batteries. <i>Applied Surface Science</i> , 2017, 394, 70-77.	3.1	41

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19	Marcasite-FeS <sub>2</sub> @carbon nanodots anchored on 3D cell-like graphenic matrix for high-rate and ultrastable potassium ion storage. <i>Journal of Power Sources</i> , 2020, 469, 228429.	4.0	39
20	Thickness controllable and mass produced WC@C@Pt hybrid for efficient hydrogen production. <i>Energy Storage Materials</i> , 2018, 10, 268-274.	9.5	28
21	NaAlH <sub>4</sub> dehydrogenation properties enhanced by MnFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Journal of Power Sources</i> , 2014, 248, 388-395.	4.0	27
22	Facile preparation of network-like porous hematite (α-Fe <sub>2</sub> O <sub>3</sub> ) nanosheets via a novel combustion-based route. <i>Ceramics International</i> , 2016, 42, 10380-10388.	2.3	25
23	TiO <sub>2</sub> Nanocrystal-Framed Li <sub>2</sub> TiSiO <sub>5</sub> Platelets for Low-Voltage Lithium Battery Anode. <i>Advanced Functional Materials</i> , 2020, 30, 2001909.	7.8	25
24	Rational design of Ruddlesden-Popper perovskite electrocatalyst for oxygen reduction to hydrogen peroxide. <i>SusMat</i> , 2022, 2, 456-465.	7.8	25
25	Tuning defect and hollow size of metallic K <sub>x</sub> CoF <sub>3</sub> for ultrastable potassium storage. <i>Energy Storage Materials</i> , 2019, 21, 196-202.	9.5	16
26	Tungsten carbide synthesized by low-temperature combustion as gas diffusion electrode catalyst. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10911-10920.	3.8	14
27	Amorphous carbon modified nano-sized tungsten carbide as a gas diffusion electrode catalyst for the oxygen reduction reaction. <i>RSC Advances</i> , 2015, 5, 70743-70748.	1.7	13
28	Ultrafast synthesis of amorphous VO <sub>x</sub> embedded into 3D strutted amorphous carbon frameworks—short-range order in dual-amorphous composites boosts lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7053-7061.	5.2	13
29	Synchronous nesting of hollow FeP nanospheres into a three-dimensional porous carbon scaffold via a salt-template method for performance-enhanced potassium-ion storage. <i>Sustainable Energy and Fuels</i> , 2021, 5, 844-854.	2.5	12
30	Catalytic effect of MnFe <sub>2</sub> O <sub>4</sub> on dehydrogenation kinetics of NaAlH <sub>4</sub> —MgH <sub>2</sub> . <i>RSC Advances</i> , 2017, 7, 34522-34529.	1.7	10
31	Facile synthesis of amorphous Cr <sub>2</sub> O <sub>3</sub> /N-doped carbon nanosheets and its excellent lithium storage property. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3234-3243.	1.9	8
32	A Low-Voltage Layered Na <sub>2</sub> TiGeO <sub>5</sub> Anode for Lithium-Ion Battery. <i>Small</i> , 2022, 18, e2107608.	5.2	7
33	Inducing two-dimensional single crystal TiN arrays with exposed {1 1 1} facets by a novel chemical vapor deposition with excellent electrocatalytic activity for hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 404, 126451.	6.6	5
34	Solid-state integrated micro-supercapacitor array construction with low-cost porous biochar. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4772-4779.	3.2	5
35	Scalable Synthesis of Hollow MoS <sub>2</sub> Nanoparticles Modified on Porous Ni for Improved Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2021, 168, 056519.	1.3	2