

Zhiwei Liu

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34
papers

1,253
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35
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1,588
ext. citations

12.3
avg, IF

4.6
L-index

#	Paper	IF	Citations
34	Bamboo-Like Hollow Tubes with MoS ₂ /N-Doped-C Interfaces Boost Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2018 , 28, 1803409	15.6	188
33	Metallic Octahedral CoSe Threaded by N-Doped Carbon Nanotubes: A Flexible Framework for High-Performance Potassium-Ion Batteries. <i>Advanced Science</i> , 2018 , 5, 1800782	13.6	162
32	High-throughput fabrication of 3D N-doped graphenic framework coupled with Fe ₃ C@porous graphite carbon for ultrastable potassium ion storage. <i>Energy Storage Materials</i> , 2019 , 22, 185-193	19.4	67
31	Zero-strain K _{0.6} Mn ₁ F _{2.7} hollow nanocubes for ultrastable potassium ion storage. <i>Energy and Environmental Science</i> , 2018 , 11, 3033-3042	35.4	67
30	Multiscale organic-induced scalable synthesis of a mesoporous MoS ₂ -monolayer/carbon composite for high-performance lithium and potassium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11147-11153	13.3	67
29	A High-Energy Aqueous Aluminum-Manganese Battery. <i>Advanced Functional Materials</i> , 2019 , 29, 1905228	28.5	62
28	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	6.7	57
27	Thickness-control of ultrathin bimetallic Fe/Mo selenide@N-doped carbon core/shell "nano-crisps" for high-performance potassium-ion batteries. <i>Applied Materials Today</i> , 2018 , 13, 344-351	6.6	57
26	Chemically bubbled hollow Fe ₃ O ₄ 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	13	52
25	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	13	48
24	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	19.4	48
23	Carbon-encapsulated ultrathin MoS ₂ nanosheets epitaxially grown on porous metallic TiNb ₂ O ₆ microspheres with unsaturated oxygen atoms for superior potassium storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5760-5768	13	42
22	A synergetic strategy for an advanced electrode with Fe ₃ O ₄ 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	13	36
21	Tuning Metallic CoSe Quantum Dots/Carbon Hollow Polyhedrons with Tertiary Hierarchical Structure for High-Performance Potassium Ion Batteries. <i>Nano-Micro Letters</i> , 2019 , 11, 96	19.5	33
20	Facile preparation of hexagonal WO ₃ @ZnO nanostructures and its electrochemical properties for lithium-ion batteries. <i>Applied Surface Science</i> , 2017 , 394, 70-77	6.7	33
19	Hierarchical two-atom-layered WSe ₂ /C ultrathin crumpled nanosheets assemblies: Engineering the interlayer spacing boosts potassium-ion storage. <i>Energy Storage Materials</i> , 2021 , 36, 309-317	19.4	29
18	Collaborative Design of Hollow Nanocubes, In Situ Cross-Linked Binder, and Amorphous Void@SiO ₂ @C as a Three-Pronged Strategy for Ultrastable Lithium Storage. <i>Small</i> , 2020 , 16, e1905736	11	26

17	Marcasite-FeS ₂ @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	8.9	21
16	Facile preparation of network-like porous hematite (Fe ₂ O ₃) nanosheets via a novel combustion-based route. <i>Ceramics International</i> , 2016 , 42, 10380-10388	5.1	21
15	NaAlH ₄ dehydrogenation properties enhanced by MnFe ₂ O ₄ nanoparticles. <i>Journal of Power Sources</i> , 2014 , 248, 388-395	8.9	20
14	Thickness controllable and mass produced WC@C@Pt hybrid for efficient hydrogen production. <i>Energy Storage Materials</i> , 2018 , 10, 268-274	19.4	18
13	Advances and perspectives on transitional metal layered oxides for potassium-ion battery. <i>Energy Storage Materials</i> , 2021 , 34, 211-228	19.4	17
12	Tungsten carbide synthesized by low-temperature combustion as gas diffusion electrode catalyst. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 10911-10920	6.7	13
11	Tuning defect and hollow size of metallic KxCoF ₃ for ultrastable potassium storage. <i>Energy Storage Materials</i> , 2019 , 21, 196-202	19.4	12
10	TiO ₂ Nanocrystal-Framed Li ₂ TiSiO ₅ Platelets for Low-Voltage Lithium Battery Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 2001909	15.6	11
9	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	3.7	9
8	Ultrafast synthesis of amorphous VO _x 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	13	9
7	Facile synthesis of amorphous Cr ₂ O ₃ /N-doped carbon nanosheets and its excellent lithium storage property. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3234-3243	3.8	7
6	Catalytic effect of MnFe ₂ O ₄ on dehydrogenation kinetics of NaAlH ₄ /MgH ₂ . <i>RSC Advances</i> , 2017 , 7, 34522-34528	3.7	6
5	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	5.8	5
4	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	14.7	3
3	Solid-state integrated micro-supercapacitor array construction with low-cost porous biochar. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4772-4779	7.8	2
2	Scalable Synthesis of Hollow MoS ₂ Nanoparticles Modified on Porous Ni for Improved Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 056519	3.9	1
1	A Low-Voltage Layered Na TiGeO Anode for Lithium-Ion Battery.. <i>Small</i> , 2022 , 18, e2107608	11	1