

A review on recent developments and challenges of cathodes in aqueous Zn-ion batteries

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Preparation of Polyaniline-coated Composite Aerogel of MnO ₂ and Reduced Graphene Oxide for High-performance Zinc-ion Battery. Chinese Journal of Polymer Science (English Edition), 2020, 38, 514-521.	3.8	39
2	Flexible and high-energy-density Zn/MnO ₂ batteries enabled by electrochemically exfoliated graphene nanosheets. New Journal of Chemistry, 2020, 44, 653-657.	2.8	20
3	Investigation of manganese oxide octahedral molecular sieve (KxMn _{8-x} O ₁₆) nanodendrite cathode for aqueous zinc ion batteries. Journal of Energy Storage, 2020, 27, 101139.	8.1	19
4	Cathode materials for rechargeable zinc-ion batteries: From synthesis to mechanism and applications. Journal of Power Sources, 2020, 449, 227596.	7.8	114
5	The electrochemical properties and reaction mechanism of orthorhombic Mn ₂ SiO ₄ cathode for aqueous rechargeable zinc ion batteries. Journal of Power Sources, 2020, 477, 229013.	7.8	9
6	Atomic-scale studies of garnet-type Mg ₃ Fe ₂ Si ₃ O ₁₂ : Defect chemistry, diffusion and dopant properties. Journal of Power Sources Advances, 2020, 3, 100016.	5.1	2
7	Energy Storage Chemistry in Aqueous Zinc Metal Batteries. ACS Energy Letters, 2020, 5, 3569-3590.	17.4	163
8	Sewable and Cuttable Flexible Zinc-Ion Hybrid Supercapacitor Using a Polydopamine/Carbon Cloth-Based Cathode. ACS Sustainable Chemistry and Engineering, 2020, 8, 16028-16036.	6.7	43
9	Understanding the Design Principles of Advanced Aqueous Zinc-Ion Battery Cathodes: From Transport Kinetics to Structural Engineering, and Future Perspectives. Advanced Energy Materials, 2020, 10, 2002354.	19.5	193
10	Rechargeable Mild Aqueous Zinc Batteries for Grid Storage. Advanced Energy and Sustainability Research, 2020, 1, 2000026.	5.8	10
11	Flexible quasi-solid-state aqueous Zn-based batteries: rational electrode designs for high-performance and mechanical flexibility. Materials Today Energy, 2020, 18, 100523.	4.7	42
12	Recent advances in developing organic electrode materials for multivalent rechargeable batteries. Energy and Environmental Science, 2020, 13, 3950-3992.	30.8	148
13	Advances in Zn-ion batteries via regulating liquid electrolyte. Energy Storage Materials, 2020, 32, 290-305.	18.0	117
14	Towards High Performance Chemical Vapour Deposition V ₂ O ₅ Cathodes for Batteries Employing Aqueous Media. Molecules, 2020, 25, 5558.	3.8	9
15	Electrochemical synthesis of Na _{0.25} MnO ₂ @ACC cathode and Zn@K-ACC anode for flexible quasi-solid-state zinc-ion battery with superior performance. Journal of Materials Science: Materials in Electronics, 2020, 31, 15943-15953.	2.2	5
16	Defect Engineering in Manganese-Based Oxides for Aqueous Rechargeable Zinc-Ion Batteries: A Review. Advanced Energy Materials, 2020, 10, 2001769.	19.5	249
17	Zn ion diffusion in spinel-type cathode materials for rechargeable batteries: the role of point defects. Materials Today Communications, 2020, 25, 101478.	1.9	12
18	A High Performing Zn-Ion Battery Cathode Enabled by In Situ Transformation of V ₂ O ₅ Atomic Layers. Angewandte Chemie, 2020, 132, 17152-17159.	2.0	33

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19	Active Materials for Aqueous Zinc Ion Batteries: Synthesis, Crystal Structure, Morphology, and Electrochemistry. <i>Chemical Reviews</i> , 2020, 120, 7795-7866.	47.7	950
20	Recent progress in organic electrodes for zinc-ion batteries. <i>Journal of Semiconductors</i> , 2020, 41, 091704.	3.7	31
21	An anti-aging polymer electrolyte for flexible rechargeable zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22637-22644.	10.3	41
22	Vanadium-Based Materials as Positive Electrode for Aqueous Zinc-Ion Batteries. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000178.	5.3	36
23	Challenges in the material and structural design of zinc anode towards high-performance aqueous zinc-ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 3330-3360.	30.8	576
24	Recent Advances of Emerging 2D MXene for Stable and Dendrite-Free Metal Anodes. <i>Advanced Functional Materials</i> , 2020, 30, 2004613.	14.9	140
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26	A three-dimensional interconnected V ₆ O ₁₃ nest with a V ⁵⁺ -rich state for ultrahigh Zn ion storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10370-10376.	10.3	77
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28	Bimetallic organic framework derivation of three-dimensional and heterogeneous metal selenides/carbon composites as advanced anodes for lithium-ion batteries. <i>Nanoscale</i> , 2020, 12, 12623-12631.	5.6	44
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34	Multiscalar Investigation of FeVO ₄ Conversion Cathode for a Low Concentration Zn(CF ₃ SO ₃) ₂ Rechargeable Zn-Ion Aqueous Battery. <i>Batteries and Supercaps</i> , 2020, 3, 619-630.	4.7	18
35	Recent advances in architecture design of nanoarrays for flexible solid-state aqueous batteries. <i>Nano Futures</i> , 2020, 4, 032002.	2.2	15
36	Flexible Zn-Ion batteries based on manganese oxides: Progress and prospect. , 2020, 2, 387-407.		55

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38	Defected vanadium bronzes as superb cathodes in aqueous zinc-ion batteries. <i>Nanoscale</i> , 2020, 12, 20638-20648.	5.6	61
39	Binder-free coaxially grown V ₆ O ₁₃ nanobelts on carbon cloth as cathodes for highly reversible aqueous zinc ion batteries. <i>Applied Surface Science</i> , 2020, 529, 147077.	6.1	51
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47	Strongly coupled zinc manganate nanodots and graphene composite as an advanced cathode material for aqueous zinc ion batteries. <i>Ceramics International</i> , 2020, 46, 11237-11245.	4.8	33
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49	Scalable gas-phase synthesis of 3D microflowers confining MnO ₂ nanowires for highly-durable aqueous zinc-ion batteries. <i>Journal of Power Sources</i> , 2020, 463, 228209.	7.8	40
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56	MXenes: Advanced materials in potassium ion batteries. <i>Chemical Engineering Journal</i> , 2021, 404, 126565.	12.7	71
57	Highly stable aqueous rechargeable Zn-ion battery: The synergistic effect between NaV ₆ O ₁₅ and V ₂ O ₅ in skin-core heterostructured nanowires cathode. <i>Journal of Energy Chemistry</i> , 2021, 55, 25-33.	12.9	44
58	Honeycomb ZnO/N/C obtained from cornsilk and ZIF-8 dual induced method for long-life aqueous zinc-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157398.	5.5	15
59	Challenges and strategies for ultrafast aqueous zinc-ion batteries. <i>Rare Metals</i> , 2021, 40, 309-328.	7.1	115
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