

Highly reversible zinc metal anode for aqueous batterie

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Citation Report

#	ARTICLE	IF	CITATIONS
3	A ZnCl ₂ water-in-salt electrolyte for a reversible Zn metal anode. <i>Chemical Communications</i> , 2018, 54, 14097-14099.	2.2	491
4	A deeply rechargeable zinc anode with pomegranate-inspired nanostructure for high-energy aqueous batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21933-21940.	5.2	61
5	A rechargeable aqueous Zn ²⁺ -battery with high power density and a long cycle-life. <i>Energy and Environmental Science</i> , 2018, 11, 3168-3175.	15.6	258
6	Before Li Ion Batteries. <i>Chemical Reviews</i> , 2018, 118, 11433-11456.	23.0	1,492
7	Inhibition of Zinc Dendrite Growth in Zinc-Based Batteries. <i>ChemSusChem</i> , 2018, 11, 3996-4006.	3.6	291
8	Capacitive Performance of Water-in-Salt Electrolytes in Supercapacitors: A Simulation Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23917-23924.	1.5	49
9	Tuning Microstructures of Graphene to Improve Power Capability of Rechargeable Hybrid Aqueous Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37110-37118.	4.0	19
10	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. <i>ACS Energy Letters</i> , 2018, 3, 2620-2640.	8.8	676
11	A Lasagna-Inspired Nanoscale ZnO Anode Design for High-Energy Rechargeable Aqueous Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 6345-6351.	2.5	46
12	Ion-Sieving Carbon Nanoshells for Deeply Rechargeable Zn-Based Aqueous Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802470.	10.2	139
13	Sealing ZnO nanorods for deeply rechargeable high-energy aqueous battery anodes. <i>Nano Energy</i> , 2018, 53, 666-674.	8.2	112
14	Fluorine-Free Water-In-Salt Electrolyte for Green and Low-Cost Aqueous Sodium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 3704-3707.	3.6	90
15	Challenges, mitigation strategies and perspectives in development of zinc-electrode materials and fabrication for rechargeable zinc-air batteries. <i>Energy and Environmental Science</i> , 2018, 11, 3075-3095.	15.6	324
16	Recent Advances in Aqueous Zinc-Ion Batteries. <i>ACS Energy Letters</i> , 2018, 3, 2480-2501.	8.8	1,553
17	Rejuvenating zinc batteries. <i>Nature Materials</i> , 2018, 17, 480-481.	13.3	88
18	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. <i>Angewandte Chemie</i> , 2018, 130, 11911-11915.	1.6	151
19	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11737-11741.	7.2	425
20	Aqueous Intercalation of Graphite at a Near-Neutral pH. <i>ACS Applied Energy Materials</i> , 2018, 1, 5062-5067.	2.5	8

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22	Mechanistic Insights of Zn ²⁺ Storage in Sodium Vanadates. <i>Advanced Energy Materials</i> , 2018, 8, 1801819.	10.2	225
23	Insights into the Structure and Transport of the Lithium, Sodium, Magnesium, and Zinc Bis(trifluoromethanesulfonyl)imide Salts in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20108-20121.	1.5	64
24	Electrodeposition of rhenium with suppressed hydrogen evolution from water-in-salt electrolyte. <i>Electrochemistry Communications</i> , 2018, 93, 53-56.	2.3	28
25	Quasi-Isolated Au Particles as Heterogeneous Seeds To Guide Uniform Zn Deposition for Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 6490-6496.	2.5	247
26	Optimization of Organic/Water Hybrid Electrolytes for High-Rate Carbon-Based Supercapacitor. <i>Advanced Functional Materials</i> , 2019, 29, 1904136.	7.8	102
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34	K ⁺ pre-intercalated manganese dioxide with enhanced Zn ²⁺ diffusion for high rate and durable aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20806-20812.	5.2	145
35	A Universal Principle to Design Reversible Aqueous Batteries Based on Deposition-Dissolution Mechanism. <i>Advanced Energy Materials</i> , 2019, 9, 1901838.	10.2	151
36	Reversible intercalation of methyl viologen as a dicationic charge carrier in aqueous batteries. <i>Nature Communications</i> , 2019, 10, 3227.	5.8	46
37	Rechargeable aqueous hybrid ion batteries: developments and prospects. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18708-18734.	5.2	128
38	A Four-Electron Sulfur Electrode Hosting a Cu ²⁺ /Cu ⁺ Redox Charge Carrier. <i>Angewandte Chemie</i> , 2019, 131, 12770-12775.	1.6	18

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39	A Four-Electron Sulfur Electrode Hosting a $\text{Cu}^{2+}/\text{Cu}^{+}$ Redox Charge Carrier. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12640-12645.	7.2	77
40	An innovation: Dendrite free quinone paired with ZnMn_2O_4 for zinc ion storage. <i>Materials Today Energy</i> , 2019, 13, 323-330.	2.5	73
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43	Dendrite-Free Zinc Deposition Induced by Multifunctional CNT Frameworks for Stable Flexible Zn-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1903675.	11.1	780
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47	A high-performance, highly bendable quasi-solid-state zinc-organic battery enabled by intelligent proton-self-buffering copolymer cathodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17292-17298.	5.2	40
48	Synthesis and electrochemical performance of NaV_3O_8 nanobelts for Li/Na-ion batteries and aqueous zinc-ion batteries. <i>RSC Advances</i> , 2019, 9, 20549-20556.	1.7	29
49	Achieving Both High Voltage and High Capacity in Aqueous Zinc-Ion Battery for Record High Energy Density. <i>Advanced Functional Materials</i> , 2019, 29, 1906142.	7.8	285
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51	Unlocking the Potential of Disordered Rocksalts for Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1904369.	11.1	171
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67	Design Strategies for Vanadium-Based Aqueous Zinc-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 16508-16517.	1.6	103
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76	Homogeneous Deposition of Zinc on Three-Dimensional Porous Copper Foam as a Superior Zinc Metal Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17737-17746.	3.2	151
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78	Low-cost and high safe manganese-based aqueous battery for grid energy storage and conversion. <i>Science Bulletin</i> , 2019, 64, 1780-1787.	4.3	56
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1206	Synergetic Modulation of Ion Flux and Water Activity in a Single Zn ²⁺ Conductor Hydrogel Electrolyte for Ultrastable Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 10872-10882.	2.5	8
1207	Copper Hexacyanoferrate Solid-State Electrolyte Protection Layer on Zn Metal Anode for High-Performance Aqueous Zinc-Ion Batteries. <i>Small</i> , 2022, 18, .	5.2	34
1208	Boosting Reversibility and Stability of Zn Anodes via Manipulation of Electrolyte Structure and Interface with Addition of Trace Organic Molecules. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	33
1209	Unshared Pair Electrons of Zincophilic Lewis Base Enable Long-life Zn Anodes under "Three High" Conditions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	40
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1211	Advances on Defect Engineering of Vanadium-Based Compounds for High-Energy Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	70
1212	Designing Zinc Deposition Substrate with Fully Preferred Orientation to Elude the Interfacial Inhomogeneous Dendrite Growth. <i>Research</i> , 2022, 2022, .	2.8	5
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1214	In-situ construction of fluorinated solid-electrolyte interphase for highly reversible zinc anodes. <i>Energy Storage Materials</i> , 2022, 53, 559-568.	9.5	24
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1223	Uniform and oriented zinc deposition induced by artificial Nb ₂ O ₅ Layer for highly reversible Zn anode in aqueous zinc ion batteries. <i>Energy Storage Materials</i> , 2022, 52, 40-51.	9.5	56
1224	Electrocrystallization orientation regulation of zinc metal anodes: strategies and challenges. <i>Energy Storage Materials</i> , 2022, 52, 329-354.	9.5	64
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1243	<i>In situ</i> polymerized synthesis of MnO nanoparticles anchored on N,S co-doped carbon as efficient cathodes for quasi-solid-state zinc ion batteries. <i>Materials Chemistry Frontiers</i> , 2022, 6, 3193-3204.	3.2	3
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1275	Rechargeable Batteries for Grid Scale Energy Storage. <i>Chemical Reviews</i> , 2022, 122, 16610-16751.	23.0	340
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1332	A solid-to-solid metallic conversion electrochemistry toward 91% zinc utilization for sustainable aqueous batteries. <i>Science Advances</i> , 2022, 8, .	4.7	80
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1338	A low fraction electrolyte additive as interface stabilizer for Zn electrode in aqueous batteries. <i>Energy Storage Materials</i> , 2023, 54, 366-373.	9.5	47
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1348	From anode to cell: synergistic protection strategies and perspectives for stabilized Zn metal in mild aqueous electrolytes. <i>Energy Storage Materials</i> , 2023, 54, 623-640.	9.5	41
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1355	Inhibiting corrosion and side reactions of zinc metal anode by nano-CaSiO ₃ coating towards high-performance aqueous zinc-ion batteries. <i>Nanotechnology</i> , 2023, 34, 085402.	1.3	7
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1357	Molecular deciphering of hydrophobic, Zinc-philic and robust Amino-functionalized Polysilane for Dendrite-free Zn Anode. <i>Energy Storage Materials</i> , 2023, 54, 875-884.	9.5	38
1358	Isotropic Amorphous Protective Layer with Uniform Interfacial Zincophobicity for Stable Zinc Anode. <i>Small</i> , 2022, 18, .	5.2	26
1359	Designing modern aqueous batteries. <i>Nature Reviews Materials</i> , 2023, 8, 109-122.	23.3	153
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1362	Empowering Zn Electrode Current Capability Along Interfacial Stability by Optimizing Intrinsic Safe Organic Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	13
1363	Understanding and Improving Mechanical Stability in Electrodeposited Cu and Bi for Dynamic Windows Based on Reversible Metal Electrodeposition. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	4

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