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Reversible aqueous zinc/manganese oxide energy storage from conversion reactions

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#	Paper	IF	Citations
1827	Batteries: Converting to long stability. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	9
1826	Cadmium Removal from Aqueous Solution by a Deionization Supercapacitor with a Birnessite Electrode. <b>2016</b> , 8, 34405-34413		53
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1824	Effect of crystalline structure on the electrochemical properties of K <sub>0.25</sub> V <sub>2</sub> O <sub>5</sub> nanobelt for fast Li insertion. <b>2016</b> , 218, 199-207		13
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1660	Vanadium-Based Cathode Materials for Rechargeable Multivalent Batteries: Challenges and Opportunities. <b>2018</b> , 1, 169-199	90
1659	Advanced Low-Cost, High-Voltage, Long-Life Aqueous Hybrid Sodium/Zinc Batteries Enabled by a Dendrite-Free Zinc Anode and Concentrated Electrolyte. <b>2018</b> , 10, 22059-22066	152
1658	Electrochemical Impedance and its Applications in Energy-Storage Systems. <b>2018</b> , 2, 1700342	42
1657	Capacitive Performance and Tortuosity of Activated Carbon Electrodes with Macroscopic Pores. <b>2018</b> , 165, A1685-A1693	16
1656	Initiating a mild aqueous electrolyte Co <sub>3</sub> O <sub>4</sub> /Zn battery with 2.2 V-high voltage and 5000-cycle lifespan by a Co(III) rich-electrode. <b>2018</b> , 11, 2521-2530	282
1655	Rational design of nano-architecture composite hydrogel electrode towards high performance Zn-ion hybrid cell. <b>2018</b> , 10, 13083-13091	66
1654	A potential large-scale energy conversion/storage system: an aqueous rechargeable battery with intercalated potassium compound. <b>2019</b> , 25, 2267-2274	3
1653	Freestanding graphene/VO <sub>2</sub> composite films for highly stable aqueous Zn-ion batteries with superior rate performance. <b>2019</b> , 17, 143-150	250
1652	Observation of combination displacement/intercalation reaction in aqueous zinc-ion battery. <b>2019</b> , 18, 10-14	108
1651	Quasi-Isolated Au Particles as Heterogeneous Seeds To Guide Uniform Zn Deposition for Aqueous Zinc-Ion Batteries. <b>2019</b> , 2, 6490-6496	117
1650	Ultrafast Zinc-Ion Diffusion Ability Observed in 6.0-Nanometer Spinel Nanodots. <b>2019</b> , 13, 10376-10385	77
1649	Electrochemical activation of commercial MnO microsized particles for high-performance aqueous zinc-ion batteries. <b>2019</b> , 438, 226951	80

1648	Breaking the 2 V Barrier in Aqueous Zinc Chemistry: Creating 2.45 and 2.8 V MnO <sub>2</sub> /Zn Aqueous Batteries. <b>2019</b> , 4, 2144-2146	79
1647	K <sup>+</sup> intercalated V <sub>2</sub> O <sub>5</sub> nanorods with exposed facets as advanced cathodes for high energy and high rate zinc-ion batteries. <b>2019</b> , 7, 20335-20347	67
1646	On the unsuspected role of multivalent metal ions on the charge storage of a metal oxide electrode in mild aqueous electrolytes. <b>2019</b> , 10, 8752-8763	21
1645	Recent Progress in the Electrolytes of Aqueous Zinc-Ion Batteries. <b>2019</b> , 25, 14480-14494	162
1644	Artificial Solid-Electrolyte Interface Facilitating Dendrite-Free Zinc Metal Anodes via Nanowetting Effect. <b>2019</b> , 11, 32046-32051	110
1643	Rechargeable aqueous electrolyte batteries: from univalent to multivalent cation chemistry. <b>2019</b> , 7, 20519-20539	101
1642	A Superior EMnO Cathode and a Self-Healing Zn-EMnO Battery. <b>2019</b> , 13, 10643-10652	278
1641	Ultrafast Rechargeable Zinc Battery Based on High-Voltage Graphite Cathode and Stable Nonaqueous Electrolyte. <b>2019</b> , 11, 32978-32986	49
1640	Electrochemical Activation of Mn <sub>3</sub> O <sub>4</sub> (Hausmannite) for a Rechargeable Aqueous Zn/Mn-Oxide Battery for Energy Storage Applications. <b>2019</b> ,	1
1639	Zinc ion interactions in a two-dimensional covalent organic framework based aqueous zinc ion battery. <b>2019</b> , 10, 8889-8894	103
1638	Structure Rearrangement and V(IV) Doping for V <sub>2</sub> O <sub>5</sub> as Ultralong-Life and Ultrahigh-Rate Cathode in Aqueous Zinc-Ion Batteries. <b>2019</b> , 166, A2805-A2813	7
1637	K <sup>+</sup> pre-intercalated manganese dioxide with enhanced Zn <sup>2+</sup> diffusion for high rate and durable aqueous zinc-ion batteries. <b>2019</b> , 7, 20806-20812	76
1636	Ni <sub>3</sub> S <sub>2</sub> /Ni nanosheet arrays for high-performance flexible zinc hybrid batteries with evident two-stage charge and discharge processes. <b>2019</b> , 7, 18915-18924	39
1635	A Universal Principle to Design Reversible Aqueous Batteries Based on Deposition/Dissolution Mechanism. <b>2019</b> , 9, 1901838	83
1634	Designing a manganese oxide bifunctional air electrode for aqueous chloride-based electrolytes in secondary zinc-air batteries. <b>2019</b> , 320, 134557	17
1633	Rechargeable aqueous hybrid ion batteries: developments and prospects. <b>2019</b> , 7, 18708-18734	68
1632	Layered vanadium oxides with proton and zinc ion insertion for zinc ion batteries. <b>2019</b> , 320, 134565	78
1631	A Flexible Quasi-Solid-State Bifunctional Device with Zinc-Ion Microbattery and Photodetector. <b>2019</b> , 6, 3933-3939	21

1630	An efficient electrocatalyst for the oxygen evolution reaction: in situ enrichment of cobalt by sulfate-reducing bacteria. <b>2019</b> , 25, 5919-5928	
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1627	V-MOF derived porous V <sub>2</sub> O <sub>5</sub> nanoplates for high performance aqueous zinc ion battery. <b>2019</b> , 493, 368-374	46
1626	A Low-Cost Zn-Based Aqueous Supercapacitor with High Energy Density. <b>2019</b> , 2, 5835-5842	38
1625	All solid state rechargeable aluminum-air battery with deep eutectic solvent based electrolyte and suppression of byproducts formation.. <b>2019</b> , 9, 22220-22226	17
1624	Layered (NH <sub>4</sub> ) <sub>2</sub> V <sub>6</sub> O <sub>16</sub> ·1.5H <sub>2</sub> O nanobelts as a high-performance cathode for aqueous zinc-ion batteries. <b>2019</b> , 7, 19130-19139	72
1623	Pseudo-Zn <sub>2</sub> Air and Zn-Ion Intercalation Dual Mechanisms to Realize High-Areal Capacitance and Long-Life Energy Storage in Aqueous Zn Battery. <b>2019</b> , 9, 1901480	85
1622	Cryptomelane K <sub>1.33</sub> Mn <sub>8</sub> O <sub>16</sub> as a cathode for rechargeable aqueous zinc-ion batteries. <b>2019</b> , 7, 23981-23988	31
1621	Tuning phase evolution of MnO <sub>2</sub> during microwave hydrothermal synthesis for high-performance aqueous Zn ion battery. <b>2019</b> , 64, 103942	91
1620	Aqueous binder effects of poly(acrylic acid) and carboxy methylated cellulose on anode performance in lithium-ion batteries. <b>2019</b> , 43, 12555-12562	2
1619	Recent Advances and Prospects of Cathode Materials for Rechargeable Aqueous Zinc-Ion Batteries. <b>2019</b> , 6, 1900387	98
1618	A Fully Integrated and Self-Powered Smartwatch for Continuous Sweat Glucose Monitoring. <b>2019</b> , 4, 1925-1933	91
1617	A review on recent developments and challenges of cathode materials for rechargeable aqueous Zn-ion batteries. <b>2019</b> , 7, 18209-18236	209
1616	TiSe <sub>2</sub> cathode for beyond Li-ion batteries. <b>2019</b> , 436, 226813	22
1615	A Zn(ClO) Electrolyte Enabling Long-Life Zinc Metal Electrodes for Rechargeable Aqueous Zinc Batteries. <b>2019</b> , 11, 42000-42005	69
1614	Phase Transition Triggers Explosion-like Puffing Process to Make Popcorn-Inspired All-Conductive Anodes for Superb Aqueous Rechargeable Batteries. <b>2019</b> , 11, 42365-42374	2
1613	MnO <sub>2</sub> @In <sub>2</sub> O <sub>3</sub> Nanotubes as Cathode Material for Aqueous Rechargeable Zn-Ion Battery with High Electrochemical Performance. <b>2019</b> , 166, A3362-A3368	18

1612	Achieving Both High Voltage and High Capacity in Aqueous Zinc-Ion Battery for Record High Energy Density. <b>2019</b> , 29, 1906142	184
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1610	Unlocking the Potential of Disordered Rocksalts for Aqueous Zinc-Ion Batteries. <b>2019</b> , 31, e1904369	93
1609	Dendrite-Free Flexible Fiber-Shaped Zn Battery with Long Cycle Life in Water and Air. <b>2019</b> , 9, 1901434	54
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1607	Lignin@Nafion Membranes Forming Zn Solid-Electrolyte Interfaces Enhance the Cycle Life for Rechargeable Zinc-Ion Batteries. <b>2019</b> , 12, 4889-4900	64
1606	Unravelling H /Zn Synergistic Intercalation in a Novel Phase of Manganese Oxide for High-Performance Aqueous Rechargeable Battery. <b>2019</b> , 15, e1904545	68
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1597	Inhibiting VOPO <sub>4</sub> ·x H <sub>2</sub> O Decomposition and Dissolution in Rechargeable Aqueous Zinc Batteries to Promote Voltage and Capacity Stabilities. <b>2019</b> , 131, 16203-16207	2
1596	Molecular Engineering of a 3D Self-Supported Electrode for Oxygen Electrocatalysis in Neutral Media. <b>2019</b> , 131, 19059-19063	18
1595	Flexible free-standing paper electrodes based on reduced graphene oxide/ENa <sub>x</sub> V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O nanocomposite for high-performance aqueous zinc-ion batteries. <b>2019</b> , 328, 135137	30

1594	A Flexible Solid-State Aqueous Zinc Hybrid Battery with Flat and High-Voltage Discharge Plateau. <b>2019</b> , 9, 1902473	79
1593	Rechargeable Soft-Matter EGaIn-MnO <sub>2</sub> Battery for Stretchable Electronics. <b>2019</b> , 9, 1902798	36
1592	High-Power and Ultralong-Life Aqueous Zinc-Ion Hybrid Capacitors Based on Pseudocapacitive Charge Storage. <b>2019</b> , 11, 94	67
1591	Going beyond Intercalation Capacity of Aqueous Batteries by Exploiting Conversion Reactions of Mn and Zn electrodes for Energy-Dense Applications. <b>2019</b> , 9, 1902270	45
1590	Cathode Interfacial Layer Formation Electrochemically Charging in Aqueous Zinc-Ion Battery. <b>2019</b> , 13, 13456-13464	110
1589	Silver-Containing MnO <sub>2</sub> Nanorods: Electrochemistry in Rechargeable Aqueous Zn-MnO <sub>2</sub> Batteries. <b>2019</b> , 166, A3575-A3584	14
1588	Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. <b>2019</b> , 10, 4975	46
1587	Building better zinc-ion batteries: A materials perspective. <b>2019</b> , 1, 100022	97
1586	Hierarchical Porous Metallic VO@C for Advanced Aqueous Zinc-Ion Batteries. <b>2019</b> , 11, 44109-44117	78
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1582	NaCa <sub>0.6</sub> V <sub>6</sub> O <sub>16</sub> ·3H <sub>2</sub> O as an Ultra-Stable Cathode for Zn-Ion Batteries: The Roles of Pre-Inserted Dual-Cations and Structural Water in V <sub>3</sub> O <sub>8</sub> Layer. <b>2019</b> , 9, 1901968	116
1581	Inhibiting VOPO · x H <sub>2</sub> O Decomposition and Dissolution in Rechargeable Aqueous Zinc Batteries to Promote Voltage and Capacity Stabilities. <b>2019</b> , 58, 16057-16061	64
1580	Delaminating Vanadium Carbides for Zinc-Ion Storage: Hydrate Precipitation and H <sup>+</sup> /Zn <sup>2+</sup> Co-Action Mechanism. <b>2019</b> , 3, 1900495	61
1579	Conductive 2D metal-organic framework for high-performance cathodes in aqueous rechargeable zinc batteries. <b>2019</b> , 10, 4948	198
1578	Simultaneous Cationic and Anionic Redox Reactions Mechanism Enabling High-Rate Long-Life Aqueous Zinc-Ion Battery. <b>2019</b> , 29, 1905267	93
1577	Superior-Performance Aqueous Zinc Ion Battery Based on Structural Transformation of MnO <sub>2</sub> by Rare Earth Doping. <b>2019</b> , 123, 22735-22741	37



1576	Design Strategies for Vanadium-based Aqueous Zinc-Ion Batteries. <b>2019</b> , 131, 16508-16517	46
1575	Ultra-High Mass-Loading Cathode for Aqueous Zinc-Ion Battery Based on Graphene-Wrapped Aluminum Vanadate Nanobelts. <b>2019</b> , 11, 69	74
1574	A New Free-Standing Aqueous Zinc-Ion Capacitor Based on MnO-CNTs Cathode and MXene Anode. <b>2019</b> , 11, 70	71
1573	In Situ Encapsulating Metal Oxides into Core-Shell Hierarchical Hybrid Fibers for Flexible Zinc-Ion Batteries toward High Durability and Ultrafast Capability for Wearable Applications. <b>2019</b> , 11, 35796-35808	28
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1570	An inorganic salt reinforced Zn <sup>2+</sup> -conducting solid-state electrolyte for ultra-stable Zn metal batteries. <b>2019</b> , 7, 22287-22295	38
1569	Hybridizing $\alpha$ -type Na <sub>x</sub> V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O with graphene towards high-performance aqueous zinc-ion batteries. <b>2019</b> , 321, 134689	29
1568	Structural perspective on revealing energy storage behaviors of silver vanadate cathodes in aqueous zinc-ion batteries. <b>2019</b> , 180, 51-59	61
1567	A case study of $\beta$ and $\delta$ -MnO <sub>2</sub> with different crystallographic forms on ion-storage in rechargeable aqueous zinc ion battery. <b>2019</b> , 324, 134867	31
1566	Electrolyte Effect on the Electrochemical Performance of Mild Aqueous Zinc-Electrolytic Manganese Dioxide Batteries. <b>2019</b> , 11, 37524-37530	28
1565	Graphene Oxide Wrapped CuVO Nanobelts as High-Capacity and Long-Life Cathode Materials of Aqueous Zinc-Ion Batteries. <b>2019</b> , 13, 12081-12089	153
1564	Cathodic electrodeposition of porous MnO <sub>2</sub> film as binder-free cathode for high performance rechargeable Zinc-ion battery. <b>2019</b> , 12, 1950073	7
1563	Homogeneous Deposition of Zinc on Three-Dimensional Porous Copper Foam as a Superior Zinc Metal Anode. <b>2019</b> , 7, 17737-17746	74
1562	Ultralong cycle stability of aqueous zinc-ion batteries with zinc vanadium oxide cathodes. <b>2019</b> , 5, eaax4279	206
1561	Dual-phase nanostructuring of layered metal oxides for high-performance aqueous rechargeable potassium ion microbatteries. <b>2019</b> , 10, 4292	48
1560	Progress and perspective of aqueous zinc-ion battery. <b>2019</b> , 12, 1930003	16
1559	Low-cost and high safe manganese-based aqueous battery for grid energy storage and conversion. <b>2019</b> , 64, 1780-1787	31



1558	Engineering the interplanar spacing of ammonium vanadates as a high-performance aqueous zinc-ion battery cathode. <b>2019</b> , 7, 940-945	164
1557	An ultra-high endurance and high-performance quasi-solid-state fiber-shaped ZnAg <sub>2</sub> O battery to harvest wind energy. <b>2019</b> , 7, 2034-2040	44
1556	Rechargeable Na/Ni batteries based on the Ni(OH) <sub>2</sub> /NiOOH redox couple with high energy density and good cycling performance. <b>2019</b> , 7, 1564-1573	27
1555	Hydrated Layered Vanadium Oxide as a Highly Reversible Cathode for Rechargeable Aqueous Zinc Batteries. <b>2019</b> , 29, 1807331	217
1554	Highly crystalline ramsdellite as a cathode material for near-neutral aqueous MnO/Zn batteries. <b>2019</b> , 55, 2082-2085	27
1553	Aqueous Zn//Zn(CF <sub>3</sub> SO <sub>3</sub> ) <sub>2</sub> //Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> batteries with simultaneous Zn <sup>2+</sup> /Na <sup>+</sup> intercalation/de-intercalation. <b>2019</b> , 58, 492-498	103
1552	An Organic Cathode Based Dual-Ion Aqueous Zinc Battery Enabled by a Cellulose Membrane. <b>2019</b> , 2, 1288-1294	71
1551	Flexible Zn-Ion Batteries: Recent Progresses and Challenges. <b>2019</b> , 15, e1804760	277
1550	Polymer grafted on carbon nanotubes as a flexible cathode for aqueous zinc ion batteries. <b>2019</b> , 55, 1647-1650	70
1549	Highly Reversible Phase Transition Endows V <sub>6</sub> O <sub>13</sub> with Enhanced Performance as Aqueous Zinc-Ion Battery Cathode. <b>2019</b> , 7, 1900022	47
1548	Deciphering charge-storage mechanisms in 3D MnOx@carbon electrode nanoarchitectures for rechargeable zinc-ion cells. <b>2019</b> , 9, 99-106	5
1547	Prototype System of Rocking-Chair Zn-Ion Battery Adopting Zinc Chevrel Phase Anode and Rhombohedral Zinc Hexacyanoferrate Cathode. <b>2019</b> , 5, 3	28
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1545	An overview of the concept and technology of ubiquitous energy. <b>2019</b> , 238, 284-302	45
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1543	A flexible rechargeable aqueous zinc manganese-dioxide battery working at 20 °C. <b>2019</b> , 12, 706-715	333
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1539	An easy synthesis of Ni-Co doped hollow C-N tubular nanocomposites as excellent cathodic catalysts of alkaline and neutral zinc-air batteries. <b>2019</b> , 62, 1251-1264	23
1538	Toward High-Performance Hybrid Zn-Based Batteries via Deeply Understanding Their Mechanism and Using Electrolyte Additive. <b>2019</b> , 29, 1903605	136
1537	Construction of V <sub>2</sub> O <sub>5</sub> /NaV <sub>6</sub> O <sub>15</sub> biphasic composites as aqueous zinc-ion battery cathode. <b>2019</b> , 847, 113246	15
1536	Porous VO microspheres: a high-capacity cathode material for aqueous zinc-ion batteries. <b>2019</b> , 55, 8486-8489	72
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1534	Langmuir-Blodgett Nanowire Devices for In Situ Probing of Zinc-Ion Batteries. <b>2019</b> , 15, e1902141	18
1533	Novel Insights into Energy Storage Mechanism of Aqueous Rechargeable Zn/MnO Batteries with Participation of Mn. <b>2019</b> , 11, 49	102
1532	Graphene-wrapped hollow ZnMn <sub>2</sub> O <sub>4</sub> microspheres for high-performance cathode materials of aqueous zinc ion batteries. <b>2019</b> , 317, 155-163	53
1531	Flexible quasi-solid-state zinc ion batteries enabled by highly conductive carrageenan bio-polymer electrolyte.. <b>2019</b> , 9, 16313-16319	42
1530	Joint Charge Storage for High-Rate Aqueous Zinc-Manganese Dioxide Batteries. <b>2019</b> , 31, e1900567	163
1529	An ultra-dense NiS <sub>2</sub> /reduced graphene oxide composite cathode for high-volumetric/gravimetric energy density nickel-zinc batteries. <b>2019</b> , 7, 15654-15661	76
1528	An Ultrastable Presodiated Titanium Disulfide Anode for Aqueous Rocking-Chair Zinc Ion Battery. <b>2019</b> , 9, 1900993	108
1527	Achieving high energy density and efficiency through integration: progress in hybrid zinc batteries. <b>2019</b> , 7, 15564-15574	31
1526	Inhibiting Grain Pulverization and Sulfur Dissolution of Bismuth Sulfide by Ionic Liquid Enhanced Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) for High-Performance Zinc-Ion Batteries. <b>2019</b> , 13, 7270-7280	51
1525	Activating C-Coordinated Iron of Iron Hexacyanoferrate for Zn Hybrid-Ion Batteries with 10 000-Cycle Lifespan and Superior Rate Capability. <b>2019</b> , 31, e1901521	173
1524	Binder-free hierarchical VS <sub>2</sub> electrodes for high-performance aqueous Zn ion batteries towards commercial level mass loading. <b>2019</b> , 7, 16330-16338	83
1523	Synthesis of polycrystalline K <sub>0.25</sub> V <sub>2</sub> O <sub>5</sub> nanoparticles as cathode for aqueous zinc-ion battery. <b>2019</b> , 801, 82-89	40

1522	Electrode Materials for Rechargeable Zinc-Ion and Zinc-Air Batteries: Current Status and Future Perspectives. <b>2019</b> , 2, 395-427	69
1521	Nanoscale Parallel Circuitry Based on Interpenetrating Conductive Assembly for Flexible and High-Power Zinc Ion Battery. <b>2019</b> , 29, 1901336	92
1520	A Flexible Aqueous Asymmetric Lithium-Ion Supercapacitor with High Voltage and Superior Safety. <b>2019</b> , 7, 1900293	4
1519	Tailoring Three-Dimensional Composite Architecture for Advanced Zinc-Ion Batteries. <b>2019</b> , 11, 19191-19199	53
1518	Anchoring V <sub>2</sub> O <sub>5</sub> nanosheets on hierarchical titanium nitride nanowire arrays to form core-shell heterostructures as a superior cathode for high-performance wearable aqueous rechargeable zinc-ion batteries. <b>2019</b> , 7, 12997-13006	64
1517	Stabilized Molybdenum Trioxide Nanowires as Novel Ultrahigh-Capacity Cathode for Rechargeable Zinc Ion Battery. <b>2019</b> , 6, 1900151	109
1516	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. <b>2019</b> , 62, 275-281	234
1515	Grown Carbon Nanotubes on Electrospun Carbon Nanofibers as a 3D Carbon Nanomaterial for High Energy Storage Performance. <b>2019</b> , 4, 5437-5458	11
1514	High-performance flexible quasi-solid-state zinc-ion batteries with layer-expanded vanadium oxide cathode and zinc/stainless steel mesh composite anode. <b>2019</b> , 62, 94-102	127
1513	Zinc ion stabilized MnO <sub>2</sub> nanospheres for high capacity and long lifespan aqueous zinc-ion batteries. <b>2019</b> , 7, 13727-13735	209
1512	Flexible and High-Voltage Coaxial-Fiber Aqueous Rechargeable Zinc-Ion Battery. <b>2019</b> , 19, 4035-4042	128
1511	Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. <b>2019</b> , 11, 20796-20803	51
1510	Mechanistic Insight into the Electrochemical Performance of Zn/VO <sub>2</sub> Batteries with an Aqueous ZnSO <sub>4</sub> Electrolyte. <b>2019</b> , 9, 1900237	125
1509	Recent progress and perspectives on aqueous Zn-based rechargeable batteries with mild aqueous electrolytes. <b>2019</b> , 20, 410-437	295
1508	Built-in oriented electric field facilitating durable Zn MnO <sub>2</sub> battery. <b>2019</b> , 62, 79-84	96
1507	Long-life and deeply rechargeable aqueous Zn anodes enabled by a multifunctional brightener-inspired interphase. <b>2019</b> , 12, 1938-1949	599
1506	Low-Cost Rapid Template-Free Synthesis of Nanoscale Zinc Spinel for Energy Storage and Electrocatalytic Applications. <b>2019</b> , 2, 3211-3219	10
1505	Design Strategies for Vanadium-based Aqueous Zinc-Ion Batteries. <b>2019</b> , 58, 16358-16367	317

1504	In-situ synthesized Ni <sub>2</sub> P nanosheet arrays as the cathode for novel alkaline Ni//Zn rechargeable battery. <b>2019</b> , 485, 462-467	35
1503	Crystal water for high performance layered manganese oxide cathodes in aqueous rechargeable zinc batteries. <b>2019</b> , 12, 1999-2009	162
1502	Mn <sub>3</sub> O <sub>4</sub> @NC Composite Nanorods as a Cathode for Rechargeable Aqueous Zn-Ion Batteries. <b>2019</b> , 6, 2510-2516	52
1501	Multivalent metal ion hybrid capacitors: a review with a focus on zinc-ion hybrid capacitors. <b>2019</b> , 7, 13810-13833	36
1500	A Room-Temperature Molten Hydrate Electrolyte for Rechargeable Zinc-Air Batteries. <b>2019</b> , 9, 1900196	78
1499	VO Nanospheres with Mixed Vanadium Valences as High Electrochemically Active Aqueous Zinc-Ion Battery Cathode. <b>2019</b> , 11, 25	197
1498	Ultra-endurance coaxial-fiber stretchable sensing systems fully powered by sunlight. <b>2019</b> , 60, 267-274	33
1497	Growth of Hierarchical MnO <sub>2</sub> Nanospire on Three-Dimensional Carbon Network for Enhancing Rechargeability as High-rate Alkaline Battery Cathode. <b>2019</b> , 4, 3204-3209	1
1496	Improving the cycle life of cryptomelane type manganese dioxides in aqueous rechargeable zinc ion batteries: The effect of electrolyte concentration. <b>2019</b> , 305, 423-432	39
1495	Ultrathin MnO <sub>2</sub> nanosheets as cathode for aqueous rechargeable zinc ion battery. <b>2019</b> , 304, 370-377	107
1494	Reversible Zn-driven reduction displacement reaction in aqueous zinc-ion battery. <b>2019</b> , 7, 7355-7359	52
1493	Holey nickel nanotube reticular network scaffold for high-performance flexible rechargeable Zn/MnO <sub>2</sub> batteries. <b>2019</b> , 370, 330-336	32
1492	An aqueous manganese-copper battery for large-scale energy storage applications. <b>2019</b> , 423, 203-210	27
1491	Reverse Dual-Ion Battery via a ZnCl <sub>2</sub> Water-in-Salt Electrolyte. <b>2019</b> , 141, 6338-6344	210
1490	A Rechargeable Battery with an Iron Metal Anode. <b>2019</b> , 29, 1900911	41
1489	Recent advance in new-generation integrated devices for energy harvesting and storage. <b>2019</b> , 60, 600-619	126
1488	Forming bubble-encapsulated double-shelled hollow spheres towards fast kinetics and superior high rate performance for aqueous rechargeable Zn-ion batteries. <b>2019</b> , 7, 10589-10600	36
1487	Inverse opal manganese dioxide constructed by few-layered ultrathin nanosheets as high-performance cathodes for aqueous zinc-ion batteries. <b>2019</b> , 12, 1347-1353	62

1486	Current Review on Synthesis, Composites and Multifunctional Properties of Graphene. <b>2019</b> , 377, 10	49
1485	A mechanically durable and device-level tough Zn-MnO <sub>2</sub> battery with high flexibility. <b>2019</b> , 23, 636-645	97
1484	An Electrolytic Zn/MnO <sub>2</sub> Battery for High-Voltage and Scalable Energy Storage. <b>2019</b> , 131, 7905-7910	49
1483	Advanced electrochemical performance of ZnMn <sub>2</sub> O <sub>4</sub> /N-doped graphene hybrid as cathode material for zinc ion battery. <b>2019</b> , 425, 162-169	97
1482	Thickening and Homogenizing Aqueous Electrolyte towards Highly Efficient and Stable Zn Metal Batteries. <b>2019</b> , 166, A1211-A1216	45
1481	An Electrolytic Zn-MnO Battery for High-Voltage and Scalable Energy Storage. <b>2019</b> , 58, 7823-7828	464
1480	MnO <sub>2</sub> nanorod/onion-like carbon composite cathode material for aqueous zinc-ion battery. <b>2019</b> , 230, 258-266	40
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1477	A Metal-Organic Framework Host for Highly Reversible Dendrite-free Zinc Metal Anodes. <b>2019</b> , 3, 1289-1300	351
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1475	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO <sub>2</sub> Batteries. <b>2019</b> , 31, 2036-2047	119
1474	One-Step Construction of Ni/Co-Doped CNT Nanotube Composites as Excellent Cathode Catalysts for Neutral Zinc-Air Battery. <b>2019</b> , 14, 1950028	8
1473	Suppressing Manganese Dissolution in Potassium Manganate with Rich Oxygen Defects Engaged High-Energy-Density and Durable Aqueous Zinc-Ion Battery. <b>2019</b> , 29, 1808375	345
1472	Rechargeable Aqueous Electrochromic Batteries Utilizing Ti-Substituted Tungsten Molybdenum Oxide Based Zn Ion Intercalation Cathodes. <b>2019</b> , 31, e1807065	113
1471	Aqueous alkaline-acid hybrid electrolyte for zinc-bromine battery with 3V voltage window. <b>2019</b> , 19, 56-61	52
1470	Aqueous V <sub>2</sub> O <sub>5</sub> /activated carbon zinc-ion hybrid capacitors with high energy density and excellent cycling stability. <b>2019</b> , 30, 5478-5486	16
1469	Self-supported ultrathin bismuth nanosheets acquired by in situ topotactic transformation of BiOCl as a high performance aqueous anode material. <b>2019</b> , 7, 6784-6792	17

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1467	A new rechargeable battery based on a zinc anode and a NaVO nanorod cathode. <b>2019</b> , 55, 3793-3796	32
1466	Hydrated Intercalation for High-Performance Aqueous Zinc Ion Batteries. <b>2019</b> , 9, 1900083	158
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1458	Biomimetic organohydrogel electrolytes for high-environmental adaptive energy storage devices. <b>2019</b> , 1, e12008	55
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1455	A long-lifespan, flexible zinc-ion secondary battery using a paper-like cathode from single-atomic layer MnO <sub>2</sub> nanosheets. <b>2019</b> , 1, 4365-4372	22
1454	Preparation and electrochemical performance of VO(A) hollow spheres as a cathode for aqueous zinc ion batteries.. <b>2019</b> , 9, 35117-35123	12
1453	A hydrated NH <sub>4</sub> V <sub>3</sub> O <sub>8</sub> nanobelt electrode for superior aqueous and quasi-solid-state zinc ion batteries. <b>2019</b> , 7, 23140-23148	46
1452	In-situ growth of Co <sub>3</sub> O <sub>4</sub> nanowire-assembled clusters on nickel foam for aqueous rechargeable Zn-Co <sub>3</sub> O <sub>4</sub> and Zn-air batteries. <b>2019</b> , 241, 104-112	122
1451	Extracting oxygen anions from ZnMn <sub>2</sub> O <sub>4</sub> : Robust cathode for flexible all-solid-state Zn-ion batteries. <b>2019</b> , 21, 154-161	159

1450	Improving a Mg/S Battery with YCl Additive and Magnesium Polysulfide. <b>2019</b> , 6, 1800981	33
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1448	Recent Advances in Flexible Zinc-Based Rechargeable Batteries. <b>2019</b> , 9, 1802605	204
1447	Water in Rechargeable Multivalent-Ion Batteries: An Electrochemical Pandora's Box. <b>2019</b> , 12, 379-396	48
1446	A MOF-based single-ion Zn <sup>2+</sup> solid electrolyte leading to dendrite-free rechargeable Zn batteries. <b>2019</b> , 56, 92-99	149
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1444	Sulfur and nitrogen enriched graphene foam scaffolds for aqueous rechargeable zinc-iodine battery. <b>2019</b> , 296, 755-761	53
1443	Ordering Heterogeneity of [MnO <sub>6</sub> ] Octahedra in Tunnel-Structured MnO <sub>2</sub> and Its Influence on Ion Storage. <b>2019</b> , 3, 471-484	84
1442	Biomimetic Solid-State Zn Electrolyte for Corrugated Structural Batteries. <b>2019</b> , 13, 1107-1115	48
1441	3D Porous Copper Skeleton Supported Zinc Anode toward High Capacity and Long Cycle Life Zinc Ion Batteries. <b>2019</b> , 7, 3364-3371	211
1440	Fully Solar-Powered Uninterrupted Overall Water-Splitting Systems. <b>2019</b> , 29, 1808889	14
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1438	Ultrastable and High-Performance Zn/VO <sub>2</sub> Battery Based on a Reversible Single-Phase Reaction. <b>2019</b> , 31, 699-706	139
1437	Progress in Rechargeable Aqueous Zinc- and Aluminum-Ion Battery Electrodes: Challenges and Outlook. <b>2019</b> , 3, 1800111	104
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1435	Zinc-ion batteries: Materials, mechanisms, and applications. <b>2019</b> , 135, 58-84	355
1434	A high entropy oxide (Mg <sub>0.2</sub> Co <sub>0.2</sub> Ni <sub>0.2</sub> Cu <sub>0.2</sub> Zn <sub>0.2</sub> O) with superior lithium storage performance. <b>2019</b> , 777, 767-774	112
1433	Multivalent ion storage towards high-performance aqueous zinc-ion hybrid supercapacitors. <b>2019</b> , 20, 335-342	128

1432	The Recent Advance in Fiber-Shaped Energy Storage Devices. <b>2019</b> , 5, 1800456	68
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1430	Printable Fabrication of a Fully Integrated and Self-Powered Sensor System on Plastic Substrates. <b>2019</b> , 31, e1804285	102
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1424	Scalable fabrication of printed Zn//MnO planar micro-batteries with high volumetric energy density and exceptional safety. <b>2020</b> , 7, 64-72	80
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1416	Realizing high-performance Zn-ion batteries by a reduced graphene oxide block layer at room and low temperatures. <b>2020</b> , 43, 1-7	14
1415	An Overview of Fiber-Shaped Batteries with a Focus on Multifunctionality, Scalability, and Technical Difficulties. <b>2020</b> , 32, e1902151	117



1414	EMnO <sub>2</sub> nanorods/graphene composite as efficient cathode for advanced rechargeable aqueous zinc-ion battery. <b>2020</b> , 43, 182-187	94
1413	Preparation of Polyaniline-coated Composite Aerogel of MnO <sub>2</sub> and Reduced Graphene Oxide for High-performance Zinc-ion Battery. <b>2020</b> , 38, 514-521	23
1412	Flexible and conductive scaffold-stabilized zinc metal anodes for ultralong-life zinc-ion batteries and zinc-ion hybrid capacitors. <b>2020</b> , 384, 123355	99
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1368	A High-Voltage, Dendrite-Free, and Durable Zn-Graphite Battery. <b>2020</b> , 32, e1905681	56
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1330	Advances in Zn-ion batteries via regulating liquid electrolyte. <b>2020</b> , 32, 290-305	50
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1320	Double-shell zinc manganate hollow microspheres embedded in carbon networks as cathode materials for high-performance aqueous zinc-ion batteries. <b>2020</b> , 580, 528-539	7
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1318	Cu-MOF-derived and porous Cu <sub>0.26</sub> V <sub>2</sub> O <sub>5</sub> @C composite cathode for aqueous zinc-ion batteries. <b>2020</b> , 26, e00236	3
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1281	Anisotropic Growth of Al-Intercalated Vanadate by Tuning Surface Hydrophilicity for High-Rate Zn-Ion Storage. <b>2020</b> , 1, 2000040	23
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1279	Application of Manganese-Based Materials in Aqueous Rechargeable Zinc-Ion Batteries. <b>2020</b> , 8,	6
1278	Regulation of Lamellar Structure of Vanadium Oxide via Polyaniline Intercalation for High-Performance Aqueous Zinc-Ion Battery. <b>2020</b> , 30, 2003890	78
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1259	Accessing the Two-Electron Charge Storage Capacity of $\text{MnO}_2$ in Mild Aqueous Electrolytes. <b>2020</b> , 10, 2000332	30
1258	Stabilizing zinc metal anodes by artificial solid electrolyte interphase through a surface ion-exchanging strategy. <b>2020</b> , 396, 125363	43
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1256	Stabilized $\text{Co}^{3+}/\text{Co}^{4+}$ Redox Pair in In Situ Produced $\text{CoSe}_2$ -Derived Cobalt Oxides for Alkaline Zn Batteries with 10 000-Cycle Lifespan and 1.9-V Voltage Plateau. <b>2020</b> , 10, 2000892	66
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1253	Impacts of Oxygen Vacancies on Zinc Ion Intercalation in $\text{VO}_2$ . <b>2020</b> , 14, 5581-5589	110

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1246	High-Performance Aqueous Zinc-Manganese Battery with Reversible Mn/Mn Double Redox Achieved by Carbon Coated MnO Nanoparticles. <b>2020</b> , 12, 110	25
1245	Layer-by-Layer Stacked (NH <sub>4</sub> ) <sub>2</sub> V <sub>4</sub> O <sub>9</sub> ·5H <sub>2</sub> O Nanosheet Assemblies with Intercalation Pseudocapacitance for High Rate Aqueous Zinc Ion Storage. <b>2020</b> , 3, 5343-5352	15
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1236	Tunable Layered (Na,Mn)VO <sub>2</sub> HO Cathode Material for High-Performance Aqueous Zinc Ion Batteries. <b>2020</b> , 7, 2000083	57
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1225	Layer-by-layer stacked amorphous V <sub>2</sub> O <sub>5</sub> /Graphene 2D heterostructures with strong-coupling effect for high-capacity aqueous zinc-ion batteries with ultra-long cycle life. <b>2020</b> , 31, 156-163	41
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1216	The rise of aqueous rechargeable batteries with organic electrode materials. <b>2020</b> , 8, 15479-15512	48
1215	A High-Energy and Long-Life Aqueous Zn/Birnessite Battery via Reversible Water and Zn Coinsertion. <b>2020</b> , 16, e2001228	38
1214	Phenanthroline Covalent Organic Framework Electrodes for High-Performance Zinc-Ion Supercapattery. <b>2020</b> , 5, 2256-2264	74
1213	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. <b>2020</b> , 5, 2376-2400	128
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1201	Metal-Organic Framework Integrated Anodes for Aqueous Zinc-Ion Batteries. <b>2020</b> , 10, 1904215	148
1200	Bio-Inspired Isoalloxazine Redox Moieties for Rechargeable Aqueous Zinc-Ion Batteries. <b>2020</b> , 15, 1290-1295	19
1199	A High-Capacity Ammonium Vanadate Cathode for Zinc-Ion Battery. <b>2020</b> , 12, 67	48

1198	Synergetic ternary metal oxide nanodots-graphene cathode for high performance zinc energy storage. <b>2020</b> , 31, 2358-2364	13
1197	Anti-freezing flexible aqueous Zn/MnO <sub>2</sub> batteries working at -5 °C enabled by a borax-crosslinked polyvinyl alcohol/glycerol gel electrolyte. <b>2020</b> , 8, 6828-6841	104
1196	Recent advances and future challenges in printed batteries. <b>2020</b> , 28, 216-234	41
1195	NASICON Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Enables Quasi-Two-Stage Na <sup>+</sup> and Zn <sup>2+</sup> Intercalation for Multivalent Zinc Batteries. <b>2020</b> , 32, 3028-3035	40
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1191	Multiscalar Investigation of FeVO <sub>4</sub> Conversion Cathode for a Low Concentration Zn(CF <sub>3</sub> SO <sub>3</sub> ) <sub>2</sub> Rechargeable Zn-Ion Aqueous Battery. <b>2020</b> , 3, 619-630	8
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1186	Electrodeposition of Zinc in Aqueous Electrolytes Containing High Molecular Weight Polymers. <b>2020</b> , 53, 2694-2701	14
1185	Preaddition of Cations to Electrolytes for Aqueous 2.2 V High Voltage Hybrid Supercapacitor with Superlong Cycling Life and Its Energy Storage Mechanism. <b>2020</b> , 12, 17659-17668	17
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1180	Lamella-nanostructured eutectic zinc-aluminum alloys as reversible and dendrite-free anodes for aqueous rechargeable batteries. <b>2020</b> , 11, 1634	195
1179	Activation of MnO hexagonal nanoplates via in situ electrochemical charging toward high-capacity and durable Zn-ion batteries. <b>2020</b> , 514, 145949	23
1178	Zwitterionic Sulfobetaine Hydrogel Electrolyte Building Separated Positive/Negative Ion Migration Channels for Aqueous Zn-MnO <sub>2</sub> Batteries with Superior Rate Capabilities. <b>2020</b> , 10, 2000035	123
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1175	Initiating a Reversible Aqueous Zn/Sulfur Battery through a "Liquid Film". <b>2020</b> , 32, e2003070	47
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1173	Electrochemical transformation reaction of CuMnO in aqueous rechargeable zinc-ion batteries for high performance and long cycle life. <b>2020</b> , 8, 17595-17607	36
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1171	Recent advances in architecture design of nanoarrays for flexible solid-state aqueous batteries. <b>2020</b> , 4, 032002	10
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1167	Designing an intrinsically safe organic electrolyte for rechargeable batteries. <b>2020</b> , 31, 382-400	29
1166	Building High Rate Capability and Ultrastable Dendrite-Free Organic Anode for Rechargeable Aqueous Zinc Batteries. <b>2020</b> , 7, 2000146	46
1165	Progress on zinc ion hybrid supercapacitors: Insights and challenges. <b>2020</b> , 31, 252-266	62
1164	Multivalent-Ion versus Proton Insertion into Battery Electrodes. <b>2020</b> , 5, 2367-2375	51
1163	A Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> O <sub>1.6</sub> F <sub>1.4</sub> Cathode of Zn-Ion Battery Enabled by a Water-in-Bisalt Electrolyte. <b>2020</b> , 30, 2003511	54

1162	A novel and improved hydrophilic vanadium oxide-based cathode for aqueous Zn-ion batteries. <b>2020</b> , 354, 136721	14
1161	The MnO@N-doped carbon composite derived from electrospinning as cathode material for aqueous zinc ion battery. <b>2020</b> , 873, 114368	34
1160	Toward a Reversible Mn <sup>4+</sup> /Mn <sup>2+</sup> Redox Reaction and Dendrite-Free Zn Anode in Near-Neutral Aqueous Zn/MnO <sub>2</sub> Batteries via Salt Anion Chemistry. <b>2020</b> , 10, 1904163	98
1159	Interfacial chemical binding and improved kinetics assisting stable aqueous Zn/MnO <sub>2</sub> batteries. <b>2020</b> , 17, 100475	30
1158	Electrochemical Energy Storage Behavior of Na <sub>0.44</sub> MnO <sub>2</sub> in Aqueous Zinc-Ion Battery. <b>2020</b> ,	5
1157	A high-power and long-life aqueous rechargeable Zn-ion battery based on hierarchically porous sodium vanadate. <b>2020</b> , 56, 9174-9177	9
1156	Recent Advances in the Rational Design and Synthesis of Two-Dimensional Materials for Multivalent Ion Batteries. <b>2020</b> , 13, 1071-1092	19
1155	Carbon fiber micron film guided uniform plating/stripping of metals: A universal approach for highly stable metal batteries. <b>2020</b> , 339, 135867	10
1154	Novel Charging-Optimized Cathode for a Fast and High-Capacity Zinc-Ion Battery. <b>2020</b> , 12, 10420-10427	27
1153	Hydrothermally Carbonized Waste Biomass as Electrocatalyst Support for $\delta$ -MnO <sub>2</sub> in Oxygen Reduction Reaction. <b>2020</b> , 10, 177	4
1152	Rechargeable Aqueous Zinc-Ion Batteries in MgSO <sub>4</sub> /ZnSO <sub>4</sub> Hybrid Electrolytes. <b>2020</b> , 12, 60	26
1151	Fast-response/stable NiBi cells achieved using hollowed-out Bi@carbon nanospheres: a preferred electricity storage choice to couple with clean energy harvesting. <b>2020</b> , 4, 1249-1255	7
1150	Porous hydrated ammonium vanadate as a novel cathode for aqueous rechargeable Zn-ion batteries. <b>2020</b> , 56, 3785-3788	15
1149	Layered Birnessite Cathode with a Displacement/Intercalation Mechanism for High-Performance Aqueous Zinc-Ion Batteries. <b>2020</b> , 12, 56	50
1148	The investigation on the electrochemical performance of CuI as cathode material for zinc storage. <b>2020</b> , 338, 135915	6
1147	Functioning Mechanism of the Secondary Aqueous Zn- $\delta$ MnO Battery. <b>2020</b> , 12, 12834-12846	40
1146	Self-Recovery Chemistry and Cobalt-Catalyzed Electrochemical Deposition of Cathode for Boosting Performance of Aqueous Zinc-Ion Batteries. <b>2020</b> , 23, 100943	47
1145	Facile plasma treated $\delta$ MnO <sub>2</sub> @C hybrids for durable cycling cathodes in aqueous Zn-ion batteries. <b>2020</b> , 827, 154273	27

1144	An organic/inorganic electrode-based hydronium-ion battery. <b>2020</b> , 11, 959	65
1143	Uncovering the Potential of M1-Site-Activated NASICON Cathodes for Zn-Ion Batteries. <b>2020</b> , 32, e1907526	59
1142	Hydrogen-Free and Dendrite-Free All-Solid-State Zn-Ion Batteries. <b>2020</b> , 32, e1908121	186
1141	Nafion Ionomer-Based Single Component Electrolytes for Aqueous Zn/MnO <sub>2</sub> Batteries with Long Cycle Life. <b>2020</b> , 8, 5040-5049	19
1140	Zn/MnO <sub>2</sub> battery chemistry with dissolution-deposition mechanism. <b>2020</b> , 16, 100396	135
1139	Bi-Cation Electrolyte for a 1.7 V Aqueous Zn Ion Battery. <b>2020</b> , 12, 13790-13796	32
1138	Formation of Solid Electrolyte Interfaces in Aqueous Electrolytes by Altering Cation-Solvation Shell Structure. <b>2020</b> , 10, 1903665	26
1137	Organic-Inorganic-Induced Polymer Intercalation into Layered Composites for Aqueous Zinc-Ion Battery. <b>2020</b> , 6, 968-984	124
1136	Excellent Rate Capability and Cycling Stability of Novel H <sub>2</sub> V <sub>3</sub> O <sub>8</sub> Doped with Graphene Materials Used in New Aqueous Zinc-Ion Batteries. <b>2020</b> , 34, 3877-3886	18
1135	A zinc battery with ultra-flat discharge plateau through phase transition mechanism. <b>2020</b> , 71, 104583	43
1134	Boosting aqueous zinc-ion storage in MoS <sub>2</sub> via controllable phase. <b>2020</b> , 389, 124405	53
1133	VO <sub>2</sub> (B) nanobelts and reduced graphene oxides composites as cathode materials for low-cost rechargeable aqueous zinc ion batteries. <b>2020</b> , 390, 124118	77
1132	Rechargeable Aqueous Zinc/Manganese Dioxide/Graphene Batteries with High Rate Capability and Large Capacity. <b>2020</b> , 3, 1742-1748	30
1131	Proton Insertion Chemistry of a Zinc/Organic Battery. <b>2020</b> , 132, 4950-4954	29
1130	A robust 2D porous carbon nanoflake cathode for high energy-power density Zn-ion hybrid supercapacitor applications. <b>2020</b> , 510, 145384	66
1129	MnO <sub>2</sub> particles grown on the surface of N-doped hollow porous carbon nanospheres for aqueous rechargeable zinc ion batteries. <b>2020</b> , 510, 145458	14
1128	Ion-confinement effect enabled by gel electrolyte for highly reversible dendrite-free zinc metal anode. <b>2020</b> , 27, 109-116	153
1127	Initiating a wide-temperature-window yarn zinc ion battery by a highly conductive iongel. <b>2020</b> , 16, 100372	10



1126	Recent advances in zinc anodes for high-performance aqueous Zn-ion batteries. <b>2020</b> , 70, 104523	219
1125	Suppression of zinc dendrite formation on anode of Zn/LiFePO <sub>4</sub> aqueous rechargeable batteries using electrodeposition. <b>2020</b> , 25, 93-96	1
1124	Amorphous Manganese Oxides: An Approach for Reversible Aqueous Zinc-Ion Batteries. <b>2020</b> , 3, 1627-1633	20
1123	Strongly coupled zinc manganate nanodots and graphene composite as an advanced cathode material for aqueous zinc ion batteries. <b>2020</b> , 46, 11237-11245	18
1122	Electrochemical intercalation of anions in graphite for high-voltage aqueous zinc battery. <b>2020</b> , 449, 227594	29
1121	Designing Aqueous Organic Electrolytes for Zinc-Air Batteries: Method, Simulation, and Validation. <b>2020</b> , 10, 1903470	25
1120	An Aqueous Hybrid Zinc-Bromine Battery with High Voltage and Energy Density. <b>2020</b> , 7, 1531-1536	20
1119	Fast Zn <sup>2+</sup> kinetics of vanadium oxide nanotubes in high-performance rechargeable zinc-ion batteries. <b>2020</b> , 451, 227767	13
1118	Membrane-Free Zn/MnO <sub>2</sub> Flow Battery for Large-Scale Energy Storage. <b>2020</b> , 10, 1902085	53
1117	Rational-design of polyaniline cathode using proton doping strategy by graphene oxide for enhanced aqueous zinc-ion batteries. <b>2020</b> , 450, 227716	31
1116	Noninterference Revealing of "Layered to Layered" Zinc Storage Mechanism of $\delta$ -MnO toward Neutral Zn-Mn Batteries with Superior Performance. <b>2020</b> , 7, 1902795	84
1115	Nonaqueous electrolyte with dual-cations for high-voltage and long-life zinc batteries. <b>2020</b> , 8, 3252-3261	56
1114	Unlocking the Door of Boosting Biodirected Structures for High-Performance VN O /C by Controlling the Reproduction Mode. <b>2020</b> , 7, 1903276	16
1113	Proton Insertion Chemistry of a Zinc-Organic Battery. <b>2020</b> , 59, 4920-4924	134
1112	A Simple Halogen-Free Magnesium Electrolyte for Reversible Magnesium Deposition through Cosolvent Assistance. <b>2020</b> , 12, 10252-10260	12
1111	Enhanced Ion Conduction via Epitaxially Polymerized Two-Dimensional Conducting Polymer for High-Performance Cathode in Zinc-Ion Batteries. <b>2020</b> , 12, 9347-9354	17
1110	Applications of metal-organic framework-derived materials in fuel cells and metal-air batteries. <b>2020</b> , 409, 213214	97
1109	Aqueous zinc ion batteries: focus on zinc metal anodes. <b>2020</b> , 11, 2028-2044	218

1108	Introducing Oxygen Defects into Phosphate Ions Intercalated Manganese Dioxide/Vertical Multilayer Graphene Arrays to Boost Flexible Zinc Ion Storage. <b>2020</b> , 4, 1900828	69
1107	Chemically resistant Cu <sub>2</sub> N/Zn composite anode for long cycling aqueous batteries. <b>2020</b> , 27, 205-211	142
1106	Ultrathin hybrid nanobelts of single-crystalline VO <sub>2</sub> and Poly(3,4-ethylenedioxythiophene) as cathode materials for aqueous zinc ion batteries with large capacity and high-rate capability. <b>2020</b> , 463, 228223	26
1105	Amorphous manganese dioxide with the enhanced pseudocapacitive performance for aqueous rechargeable zinc-ion battery. <b>2020</b> , 396, 125221	44
1104	Scalable gas-phase synthesis of 3D microflowers confining MnO <sub>2</sub> nanowires for highly-durable aqueous zinc-ion batteries. <b>2020</b> , 463, 228209	25
1103	TiC-modified MnO <sub>2</sub> nanowires as highly efficient oxygen electrocatalyst for rechargeable Zn-air batteries. <b>2020</b> , 834, 155090	11
1102	Layered Ca MnO <sub>2</sub> · 0.5H <sub>2</sub> O as a High Performance Cathode for Aqueous Zinc-Ion Battery. <b>2020</b> , 16, e2000597	81
1101	Quasi-solid-state zinc-ion battery based on MnO <sub>2</sub> cathode with husk-like morphology. <b>2020</b> , 345, 136189	9
1100	Structural engineering of hydrated vanadium oxide cathode by K <sup>+</sup> incorporation for high-capacity and long-cycling aqueous zinc ion batteries. <b>2020</b> , 29, 9-16	63
1099	Synergistic H <sup>+</sup> /Zn <sup>2+</sup> dual ion insertion mechanism in high-capacity and ultra-stable hydrated VO <sub>2</sub> cathode for aqueous Zn-ion batteries. <b>2020</b> , 29, 60-70	73
1098	Anchoring MnO <sub>2</sub> on nitrogen-doped porous carbon nanosheets as flexible arrays cathodes for advanced rechargeable Zn/MnO <sub>2</sub> batteries. <b>2020</b> , 29, 52-59	59
1097	Scientific Challenges for the Implementation of Zn-Ion Batteries. <b>2020</b> , 4, 771-799	482
1096	High-Rate and Long-Cycle Stability with a Dendrite-Free Zinc Anode in an Aqueous Zn-Ion Battery Using Concentrated Electrolytes. <b>2020</b> , 3, 4499-4508	43
1095	An environmentally adaptive quasi-solid-state zinc-ion battery based on magnesium vanadate hydrate with commercial-level mass loading and anti-freezing gel electrolyte. <b>2020</b> , 8, 8397-8409	46
1094	Electrode Materials for Practical Rechargeable Aqueous Zn-Ion Batteries: Challenges and Opportunities. <b>2020</b> , 7, 2714-2734	26
1093	Charge Storage Mechanism of a Quinone Polymer Electrode for Zinc-ion Batteries. <b>2020</b> , 167, 070558	12
1092	Progress of Organic Electrodes in Aqueous Electrolyte for Energy Storage and Conversion. <b>2020</b> , 59, 18322-18333	40
1091	Cobalt-Doped Layered MnO <sub>2</sub> Thin Film Electrochemically Grown on Nitrogen-Doped Carbon Cloth for Aqueous Zinc-Ion Batteries. <b>2020</b> , 3, 4720-4726	24

1090	A Chemically Polished Zinc Metal Electrode with a Ridge-like Structure for Cycle-Stable Aqueous Batteries. <b>2020</b> , 12, 23028-23034	28
1089	Progress of Organic Electrodes in Aqueous Electrolyte for Energy Storage and Conversion. <b>2020</b> , 132, 18478-18489	14
1088	V O @C Nanoscrolls with Expanded Distances between Adjacent Shells as a High-Performance Cathode for a Knittable Zinc-Ion Battery. <b>2020</b> , 13, 3696-3706	19
1087	Revealing the Impact of Oxygen Dissolved in Electrolytes on Aqueous Zinc-Ion Batteries. <b>2020</b> , 23, 100995	32
1086	Unveiling the Charge Storage Mechanism in Nonaqueous and Aqueous Zn/Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> Batteries. <b>2020</b> , 3, 5015-5023	20
1085	The Current State of Aqueous Zn-Based Rechargeable Batteries. <b>2020</b> , 5, 1665-1675	127
1084	Understanding the mechanism of byproduct formation with in operando synchrotron techniques and its effects on the electrochemical performance of VO <sub>2</sub> (B) nanoflakes in aqueous rechargeable zinc batteries. <b>2020</b> , 8, 9567-9578	25
1083	Layered VSe <sub>2</sub> : a promising host for fast zinc storage and its working mechanism. <b>2020</b> , 8, 9313-9321	29
1082	Hexagonal MoO <sub>3</sub> as a zinc intercalation anode towards zinc metal-free zinc-ion batteries. <b>2020</b> , 8, 9006-9012	39
1081	Oxygen vacancies-rich cobalt-doped NiMoO <sub>4</sub> nanosheets for high energy density and stable aqueous Ni-Zn battery. <b>2020</b> , 63, 1205-1215	36
1080	Reversible V <sup>3+</sup> /V <sup>5+</sup> double redox in lithium vanadium oxide cathode for zinc storage. <b>2020</b> , 29, 113-120	44
1079	A Layered Zn <sub>0.4</sub> VOPO <sub>4</sub> ·0.8H <sub>2</sub> O Cathode for Robust and Stable Zn Ion Storage. <b>2020</b> , 3, 3919-3927	34
1078	The critical effect of water content in the electrolyte on the reversible electrochemical performance of Zn/VPO <sub>4</sub> F cells. <b>2020</b> , 8, 8262-8267	9
1077	A universal and facile approach to suppress dendrite formation for a Zn and Li metal anode. <b>2020</b> , 8, 9331-9344	62
1076	Challenges and Strategies for High-Energy Aqueous Electrolyte Rechargeable Batteries. <b>2021</b> , 60, 598-616	94
1075	Wässrige Hochleistungsbatterien: Herausforderungen und Strategien. <b>2021</b> , 133, 608-626	5
1074	Redirected Zn Electrodeposition by an Anti-Corrosion Elastic Constraint for Highly Reversible Zn Anodes. <b>2021</b> , 31, 2001867	86
1073	Charge storage mechanism of MOF-derived Mn <sub>2</sub> O <sub>3</sub> as high performance cathode of aqueous zinc-ion batteries. <b>2021</b> , 52, 277-283	38

1072	From aqueous Zn-ion battery to Zn-MnO <sub>2</sub> flow battery: A brief story. <b>2021</b> , 54, 194-201	81
1071	Promise and challenge of vanadium-based cathodes for aqueous zinc-ion batteries. <b>2021</b> , 54, 655-667	45
1070	Recent advances in energy storage mechanism of aqueous zinc-ion batteries. <b>2021</b> , 54, 712-726	93
1069	Molten salt synthesis of $\delta$ -MnO <sub>2</sub> /Mn <sub>2</sub> O <sub>3</sub> nanocomposite as a high-performance cathode material for aqueous zinc-ion batteries. <b>2021</b> , 54, 475-481	24
1068	Boosting the Energy Density of Aqueous Batteries via Facile Grotthuss Proton Transport. <b>2021</b> , 133, 4215-4220	13
1067	Na-containing manganese-based cathode materials synthesized by sol-gel method for zinc-based rechargeable aqueous battery. <b>2021</b> , 858, 157744	8
1066	Rechargeable alkaline zinc-manganese oxide batteries for grid storage: Mechanisms, challenges and developments. <b>2021</b> , 143, 100593	17
1065	Hyper oxidized V <sub>6</sub> O <sub>13</sub> ·xH <sub>2</sub> O layered cathode for aqueous rechargeable Zn battery: Effect on dual carriers transportation and parasitic reactions. <b>2021</b> , 35, 47-61	12
1064	A Highly Flexible and Lightweight MnO <sub>2</sub> /Graphene Membrane for Superior Zinc-Ion Batteries. <b>2021</b> , 31, 2007397	58
1063	Dual defects boosting zinc ion storage of hierarchical vanadium oxide fibers. <b>2021</b> , 404, 126536	20
1062	Understanding the Gap between Academic Research and Industrial Requirements in Rechargeable Zinc-Ion Batteries. <b>2021</b> , 4, 60-71	9
1061	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. <b>2021</b> , 403, 126425	48
1060	$\delta$ -MnO <sub>2</sub> with proton conversion mechanism in rechargeable zinc ion battery. <b>2021</b> , 56, 365-373	37
1059	Suppressing by-product via stratified adsorption effect to assist highly reversible zinc anode in aqueous electrolyte. <b>2021</b> , 55, 549-556	49
1058	Highly efficient dendrite suppressor and corrosion inhibitor based on gelatin/Mn <sup>2+</sup> Co-additives for aqueous rechargeable zinc-manganese dioxide battery. <b>2021</b> , 407, 127189	13
1057	Oxide-based cathode materials for rechargeable zinc ion batteries: Progresses and challenges. <b>2021</b> , 57, 516-542	14
1056	Electrolyte formulation to enable ultra-stable aqueous Zn-organic batteries. <b>2021</b> , 482, 228904	8
1055	Recent advances in vanadium-based cathode materials for rechargeable zinc ion batteries. <b>2021</b> , 5, 744-762	14

1054	Boosting zinc storage performance via conductive materials. <b>2021</b> , 133, 111077	8
1053	Engineering stable Zn-MnO <sub>2</sub> batteries by synergistic stabilization between the carbon nanofiber core and birnessite-MnO <sub>2</sub> nanosheets shell. <b>2021</b> , 405, 126969	31
1052	Highly stable H <sub>2</sub> V <sub>3</sub> O <sub>8</sub> /MXene cathode for Zn-ion batteries with superior rate performance and long lifespan. <b>2021</b> , 405, 126737	26
1051	Interlayer Engineering of HMoO <sub>4</sub> Modulates Selective Hydronium Intercalation in Neutral Aqueous Electrolyte. <b>2021</b> , 60, 896-903	45
1050	Direct Self-Assembly of MXene on Zn Anodes for Dendrite-Free Aqueous Zinc-Ion Batteries. <b>2021</b> , 60, 2861-2865	202
1049	Effects of water-based binders on electrochemical performance of manganese dioxide cathode in mild aqueous zinc batteries. <b>2021</b> , 3, 473-481	13
1048	Non-metallic charge carriers for aqueous batteries. <b>2021</b> , 6, 109-123	85
1047	Pencil Drawing Stable Interface for Reversible and Durable Aqueous Zinc-Ion Batteries. <b>2021</b> , 31, 2006495	55
1046	Strategies for the Stabilization of Zn Metal Anodes for Zn-Ion Batteries. <b>2021</b> , 11, 2003065	129
1045	Rechargeable Sodium-Based Hybrid Metal-Ion Batteries toward Advanced Energy Storage. <b>2021</b> , 31, 2006457	15
1044	High-performance Zn-graphite battery based on LiPF <sub>6</sub> single-salt electrolyte with high working voltage and long cycling life. <b>2021</b> , 58, 602-609	21
1043	The strategies to improve the layered-structure cathodes for aqueous multivalent metal-ion batteries. <b>2021</b> , 19, 100595	7
1042	Recent advances and perspectives on vanadium- and manganese-based cathode materials for aqueous zinc ion batteries. <b>2021</b> , 59, 134-159	44
1041	Vanadium hexacyanoferrate with two redox active sites as cathode material for aqueous Zn-ion batteries. <b>2021</b> , 484, 229263	15
1040	In-Situ Electrochemically Activated Surface Vanadium Valence in V <sub>2</sub> C MXene to Achieve High Capacity and Superior Rate Performance for Zn-Ion Batteries. <b>2021</b> , 31, 2008033	49
1039	Uncover the mystery of high-performance aqueous zinc-ion batteries constructed by oxygen-doped vanadium nitride cathode: Cationic conversion reaction works. <b>2021</b> , 35, 679-686	30
1038	Free-standing composite of Na <sub>x</sub> V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O nanobelts and carbon nanotubes with interwoven architecture for large areal capacity and high-rate capability aqueous zinc ion batteries. <b>2021</b> , 368, 137600	12
1037	Achieving a Zn-ion battery-capacitor hybrid energy storage device with a cycle life of more than 12,000 cycles. <b>2021</b> , 207, 108555	7

1036	Emergence of nonaqueous electrolytes for rechargeable zinc batteries. <b>2021</b> , 28, 100426	2
1035	Sn stabilized pyrovanadate structure rearrangement for zinc ion battery. <b>2021</b> , 81, 105584	21
1034	Phase formation of manganese oxide thin films using pulsed laser deposition. <b>2021</b> , 2, 303-309	1
1033	Interfacial polarization triggered by glutamate accelerates dehydration of hydrated zinc ions for zinc-ion batteries. <b>2021</b> , 416, 127704	10
1032	Mn-doped ZnO microspheres as cathode materials for aqueous zinc ion batteries with ultrastability up to 10 000 cycles at a large current density. <b>2021</b> , 421, 127770	4
1031	Microstructural Engineering of Cathode Materials for Advanced Zinc-Ion Aqueous Batteries. <b>2020</b> , 8, 2002722	21
1030	Recent Developments of Preintercalated Cathodes for Rechargeable Aqueous Zn-Ion Batteries. <b>2021</b> , 9, 2000829	4
1029	Zinc Metal Energy Storage Devices under Extreme Conditions of Low Temperatures. <b>2021</b> , 4, 389-406	7
1028	Green and low-cost acetate-based electrolytes for the highly reversible zinc anode. <b>2021</b> , 485, 229329	11
1027	Tailoring the linking patterns of polypyrrene cathodes for high-performance aqueous Zn dual-ion batteries. <b>2021</b> , 14, 462-472	25
1026	Innovative zinc-based batteries. <b>2021</b> , 484, 229309	28
1025	Two-dimensional hierarchical Mn <sub>2</sub> O <sub>3</sub> @graphene as a high rate and ultrastable cathode for aqueous zinc-ion batteries. <b>2021</b> , 9, 1326-1332	13
1024	Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zinc-Iodine Battery with Improved Power and Energy Densities. <b>2021</b> , 133, 3835-3842	14
1023	Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zinc-Iodine Battery with Improved Power and Energy Densities. <b>2021</b> , 60, 3791-3798	26
1022	Recent Advances and Perspectives of Zn-Metal Free Rocking-Chair Type Zn-Ion Batteries. <b>2021</b> , 11, 2002529	52
1021	Opportunities of Aqueous Manganese-Based Batteries with Deposition and Stripping Chemistry. <b>2021</b> , 11, 2002904	37
1020	Zn electrode/electrolyte interfaces of Zn batteries: A mini review. <b>2021</b> , 122, 106898	21
1019	Carbon materials for ion-intercalation involved rechargeable battery technologies. <b>2021</b> , 50, 2388-2443	79

1018	Parasitic electrodeposition in Zn-MnO <sub>2</sub> batteries and its suppression for prolonged cyclability. <b>2021</b> , 36, 478-484	14
1017	Towards a high MnO <sub>2</sub> loading and gravimetric capacity from proton-coupled Mn <sup>4+</sup> /Mn <sup>2+</sup> reactions using a 3D free-standing conducting scaffold. <b>2021</b> , 9, 1500-1506	3
1016	A vertical graphene enhanced Zn/MnO <sub>2</sub> flexible battery towards wearable electronic devices. <b>2021</b> , 9, 575-584	15
1015	Direct Self-Assembly of MXene on Zn Anodes for Dendrite-Free Aqueous Zinc-Ion Batteries. <b>2021</b> , 133, 2897-2901	23
1014	Fundamentals and perspectives of electrolyte additives for aqueous zinc-ion batteries. <b>2021</b> , 34, 545-562	102
1013	Boosting the Energy Density of Aqueous Batteries via Facile Grothuss Proton Transport. <b>2021</b> , 60, 4169-4174	37
1012	Rechargeable aqueous zinc-ion batteries: Mechanism, design strategies and future perspectives. <b>2021</b> , 42, 73-98	46
1011	Aqueous nickel-ion battery with Na <sub>2</sub> V <sub>6</sub> O <sub>16</sub> ·2H <sub>2</sub> O nanowire as high-capacity and zero-strain host material. <b>2021</b> , 413, 127441	7
1010	Interlayer Engineering of HMoO <sub>3</sub> Modulates Selective Hydronium Intercalation in Neutral Aqueous Electrolyte. <b>2021</b> , 133, 909-916	2
1009	Strategies towards the challenges of zinc metal anode in rechargeable aqueous zinc ion batteries. <b>2021</b> , 35, 19-46	68
1008	An unconventional full dual-cation battery. <b>2021</b> , 81, 105539	7
1007	Polyaniline-mediated coupling of Mn <sub>3</sub> O <sub>4</sub> nanoparticles on activated carbon for high-performance asymmetric supercapacitors. <b>2021</b> , 851, 156871	15
1006	On-site building of a Zn <sup>2+</sup> -conductive interfacial layer via short-circuit energization for stable Zn anode. <b>2021</b> , 66, 545-552	14
1005	Cathodes for Aqueous Zn-Ion Batteries: Materials, Mechanisms, and Kinetics. <b>2021</b> , 27, 830-860	31
1004	Azobenzene-Based Low-Potential Anolyte for Nonaqueous Organic Redox Flow Batteries. <b>2021</b> , 8, 83-89	6
1003	S-doped 3D porous carbons derived from potassium thioacetate activation strategy for zinc-ion hybrid supercapacitor applications. <b>2021</b> , 45, 2498-2510	18
1002	High-performance aqueous Zn/MnO <sub>2</sub> batteries enabled by the coupling engineering of K <sup>+</sup> pre-intercalation and oxygen defects. <b>2021</b> , 9, 15637-15647	7
1001	A comparison study of MnO and MnO <sub>2</sub> as zinc-ion battery cathodes: an experimental and computational investigation.. <b>2021</b> , 11, 14408-14414	3

1000	Gradient valence-distributed vanadium oxygen hydrate hybrid induces high performance aqueous zinc-ion batteries.	1
999	Aqueous Mn-Zn and Ni-Zn Batteries for Sustainable Energy Storage. <b>2021</b> , 1-26	1
998	Operando constructing vanadium tetrasulfide-based heterostructures enabled by extrinsic adsorbed oxygen for enhanced zinc ion storage. <b>2021</b> , 9, 11433-11441	7
997	Comprehensive understanding of the roles of water molecules in aqueous Zn-ion batteries: from electrolytes to electrode materials. <b>2021</b> , 14, 3796-3839	53
996	Preparation and electrochemical performance of sodium manganese oxides as cathode materials for aqueous Mg-ion batteries. <b>2021</b> , 0-0	
995	Electrochemical performance and reaction mechanism investigation of V <sub>2</sub> O <sub>5</sub> positive electrode material for aqueous rechargeable zinc batteries. <b>2021</b> , 9, 16776-16786	4
994	Preparation of $\beta$ -MnO <sub>2</sub> Nanorods/Porous Carbon Cathode for Aqueous Zinc-ion Batteries. <b>2021</b> , 79, 200	6
993	Enhanced electrochemical performance of MnO nanoparticles: graphene aerogels as conductive substrates and capacitance contributors. <b>2021</b> , 50, 8776-8784	4
992	Suppressing cathode dissolution via guest engineering for durable aqueous zinc-ion batteries. <b>2021</b> , 9, 7631-7639	9
991	Recent advances in wearable self-powered energy systems based on flexible energy storage devices integrated with flexible solar cells. <b>2021</b> , 9, 18887-18905	6
990	High-voltage and long-lasting aqueous chlorine-ion battery by virtue of "water-in-salt" electrolyte. <b>2021</b> , 24, 101976	3
989	Mn-based oxides for aqueous rechargeable metal ion batteries. <b>2021</b> , 9, 11472-11500	15
988	Superior-Performance Aqueous Zinc-Ion Batteries Based on the Growth of MnO Nanosheets on VCT MXene. <b>2021</b> , 15, 2971-2983	73
987	An Anode-Free Zn-MnO Battery. <b>2021</b> , 21, 1446-1453	35
986	Realizing an All-Round Hydrogel Electrolyte toward Environmentally Adaptive Dendrite-Free Aqueous Zn-MnO Batteries. <b>2021</b> , 33, e2007559	87
985	Recent Developments of Zinc-Ion Batteries. <b>2021</b> , 27-57	0
984	Unveiling the Origin of Alloy-Seeded and Nondendritic Growth of Zn for Rechargeable Aqueous Zn Batteries. <b>2021</b> , 6, 404-412	49
983	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. <b>2021</b> , 6, 395-403	110



982	Extended $\pi$ -Conjugated System in Organic Cathode with Active C-N Bonds for Driving Aqueous Zinc-Ion Batteries. <b>2021</b> , 4, 655-661	8
981	High Performance Printed AgO-Zn Rechargeable Battery for Flexible Electronics. <b>2021</b> , 5, 228-248	33
980	Long cyclic stability of acidic aqueous zinc-ion batteries achieved by atomic layer deposition: the effect of the induced orientation growth of the Zn anode. <b>2021</b> , 13, 12223-12232	7
979	A carbon-coated spinel zinc cobaltate doped with manganese and nickel as a cathode material for aqueous zinc-ion batteries. <b>2021</b> , 50, 5795-5806	3
978	Uniform and dendrite-free zinc deposition enabled by in situ formed AgZn <sub>3</sub> for the zinc metal anode. <b>2021</b> , 9, 8452-8461	41
977	Zn <sup>2+</sup> -Intercalated V <sub>2</sub> O <sub>5</sub> $\cdot$ nH <sub>2</sub> O derived from V <sub>2</sub> CT <sub>x</sub> MXene for hyper-stable zinc-ion storage. <b>2021</b> , 9, 17994-18005	10
976	Regulation methods for the Zn/electrolyte interphase and the effectiveness evaluation in aqueous Zn-ion batteries.	75
975	Identifying Heteroatomic and Defective Sites in Carbon with Dual-Ion Adsorption Capability for High Energy and Power Zinc Ion Capacitor. <b>2021</b> , 13, 59	20
974	Concentrated dual-cation electrolyte strategy for aqueous zinc-ion batteries.	42
973	An Energy and Power Dense Aqueous Zinc-Ion Hybrid Supercapacitor with Low Leakage Current and Long Cycle Life. <b>2021</b> , 168, 010538	6
972	Unraveling the critical role of Zn-phyllomanganates in zinc ion batteries. <b>2021</b> , 9, 13950-13957	2
971	Generating H <sup>+</sup> in Catholyte and OH <sup>-</sup> in Anolyte: An Approach to Improve the Stability of Aqueous Zinc-Ion Batteries. <b>2021</b> , 6, 684-686	10
970	Electrolyte Concentration Regulation Boosting Zinc Storage Stability of High-Capacity KVO Cathode for Bendable Quasi-Solid-State Zinc Ion Batteries. <b>2021</b> , 13, 34	14
969	Elucidating zinc-ion battery mechanisms in freestanding carbon electrode architectures decorated with nanocrystalline ZnMn <sub>2</sub> O <sub>4</sub> . <b>2021</b> , 2, 2730-2738	2
968	A rechargeable zinc-air battery based on zinc peroxide chemistry. <b>2021</b> , 371, 46-51	185
967	Liquid Alloy Interlayer for Aqueous Zinc-Ion Battery. <b>2021</b> , 6, 675-683	47
966	In situ built interphase with high interface energy and fast kinetics for high performance Zn metal anodes. <b>2021</b> , 14, 3609-3620	79
965	Water Invoking Interface Corrosion: An Energy Density Booster for Ni//Zn Battery. <b>2021</b> , 11, 2003268	15

964	Sample dependent performance of aqueous copper hexacyanoferrate/zinc batteries. <b>2021</b> , 2, 2036-2044	2
963	Non-Metal Ion Co-Insertion Chemistry in Aqueous Zn/MnO <sub>2</sub> Batteries. <b>2021</b> , 133, 7132-7136	5
962	Probing of Mass Exchange at the Solid Electrolyte Interphase in Aqueous and Nonaqueous Zn Electrolytes with EQCM-D. <b>2021</b> , 13, 10131-10140	1
961	Toward Practical High-Areal-Capacity Aqueous Zinc-Metal Batteries: Quantifying Hydrogen Evolution and a Solid-Ion Conductor for Stable Zinc Anodes. <b>2021</b> , 33, e2007406	133
960	Electrolyte Strategies toward Better Zinc-Ion Batteries. <b>2021</b> , 6, 1015-1033	119
959	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. <b>2021</b> , 133, 7442-7451	43
958	3D Porous Sponge-Inspired Electrode for High-Energy and High-Power Zinc-Ion Batteries. <b>2021</b> , 4, 1833-1839	8
957	Simultaneously Regulating Uniform Zn Flux and Electron Conduction by MOF/rGO Interlayers for High-Performance Zn Anodes. <b>2021</b> , 13, 73	28
956	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. <b>2021</b> , 60, 7366-7375	161
955	The Renaissance of Proton Batteries. <b>2021</b> , 2, 2000113	22
954	Observation of Structural Decomposition of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> and Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> as Cathodes for Aqueous Zn-Ion Batteries. <b>2021</b> , 4, 2797-2807	8
953	Inorganic Colloidal Electrolyte for Highly Robust Zinc-Ion Batteries. <b>2021</b> , 13, 69	95
952	Electrolyte Design for In Situ Construction of Highly Zn -Conductive Solid Electrolyte Interphase to Enable High-Performance Aqueous Zn-Ion Batteries under Practical Conditions. <b>2021</b> , 33, e2007416	158
951	Enabling Stable Zn Anode via a Facile Alloying Strategy and 3D Foam Structure. <b>2021</b> , 8, 2002184	23
950	Recent Developments and Future Prospects for Zinc-Ion Hybrid Capacitors: a Review. <b>2021</b> , 11, 2003994	76
949	Direct Proof of the Reversible Dissolution/Deposition of Mn/Mn for Mild-Acid Zn-MnO Batteries with Porous Carbon Interlayers. <b>2021</b> , 8, 2003714	22
948	The 2021 battery technology roadmap. <b>2021</b> , 54, 183001	63
947	Regulating Zn Deposition via an Artificial Solid-Electrolyte Interface with Aligned Dipoles for Long Life Zn Anode. <b>2021</b> , 13, 79	30

946	A Replacement Reaction Enabled Interdigitated Metal/Solid Electrolyte Architecture for Battery Cycling at 20 mA cm and 20 mAh cm. <b>2021</b> , 143, 3143-3152	60
945	Recent Development of Mn-based Oxides as Zinc-Ion Battery Cathode. <b>2021</b> , 14, 1634-1658	25
944	Non-Metal Ion Co-Insertion Chemistry in Aqueous Zn/MnO Batteries. <b>2021</b> , 60, 7056-7060	36
943	Achieving Stable Molybdenum Oxide Cathodes for Aqueous Zinc-Ion Batteries in Water-in-Salt Electrolyte. <b>2021</b> , 8, 2002080	14
942	Sandwich-Like Heterostructures of MoS <sub>2</sub> /Graphene with Enlarged Interlayer Spacing and Enhanced Hydrophilicity as High-Performance Cathodes for Aqueous Zinc-Ion Batteries. <b>2021</b> , 33, e2007480	89
941	High-Potential Pseudocapacitive Energy Storage System: Iron-Based Polyferric Sulfate Electrolyte and Partially Sacrificial Graphite Electrode. <b>2021</b> , 13, 490-496	
940	Interconnected Vertical MnO <sub>2</sub> Nanoflakes Coated by a Dopamine-Derived Carbon Thin Shell as a High-Performance Self-Supporting Cathode for Aqueous Zinc Ion Batteries. <b>2021</b> , 168, 030540	8
939	Recent Progress and Challenges in Multivalent Metal-Ion Hybrid Capacitors. <b>2021</b> , 4, 1201-1220	5
938	Zinc manganate/manganic oxide bi-component nanorod as excellent cathode for zinc-ion battery. <b>2021</b> , 194, 113707	6
937	Towards High-Performance Zinc-Based Hybrid Supercapacitors via Macropores-Based Charge Storage in Organic Electrolytes. <b>2021</b> , 60, 9610-9617	29
936	Application of Carbon Materials in Aqueous Zinc Ion Energy Storage Devices. <b>2021</b> , 17, e2100219	16
935	Stratified Zinc-Binding Strategy toward Prolonged Cycling and Flexibility of Aqueous Fibrous Zinc Metal Batteries. <b>2021</b> , 11, 2100214	21
934	Towards High-Performance Zinc-Based Hybrid Supercapacitors via Macropores-Based Charge Storage in Organic Electrolytes. <b>2021</b> , 133, 9696-9703	5
933	Reversible Electrochemical Energy Storage Based on Zinc-Halide Chemistry. <b>2021</b> , 13, 14112-14121	4
932	Toward a High-Performance Aqueous Zinc Ion Battery: Potassium Vanadate Nanobelts and Carbon Enhanced Zinc Foil. <b>2021</b> , 21, 2738-2744	15
931	The rising zinc anodes for high-energy aqueous batteries. <b>2021</b> , 3, 100052	27
930	Anti-corrosive Hybrid Electrolytes for Rechargeable Aqueous Zinc Batteries. <b>2021</b> , 37, 328-334	2
929	Recent progress and challenges of co-based compound for aqueous Zn battery. <b>2021</b> , 2, 1642-1660	1

928	Oxygen-deficient ammonium vanadate for flexible aqueous zinc batteries with high energy density and rate capability at 80 °C. <b>2021</b> , 43, 53-61	13
927	In-situ electrochemical conversion of vanadium dioxide for enhanced zinc-ion storage with large voltage range. <b>2021</b> , 487, 229369	20
926	Constructing a High-Performance Aqueous Rechargeable Zinc-Ion Battery Cathode with Self-Assembled Mat-like Packing of Intertwined Ag(I) Pre-Inserted V <sub>3</sub> O <sub>7</sub> ·H <sub>2</sub> O Microbelts with Reduced Graphene Oxide Core. <b>2021</b> , 9, 3985-3995	11
925	Fabrications of High-Performance Planar Zinc-Ion Microbatteries by Engraved Soft Templates. <b>2021</b> , 17, e2007389	12
924	Mechanistic Understanding of Oxygen Electrodes in Rechargeable Multivalent Metal-Oxygen Batteries. <b>2021</b> , 4, 1588	1
923	Synergistic Effect between S and Se Enhancing the Electrochemical Behavior of Se <sub>x</sub> S <sub>y</sub> in Aqueous Zn Metal Batteries. <b>2021</b> , 31, 2101237	18
922	Controlling Vanadate Nanofiber Interlayer via Intercalation with Conducting Polymers: Cathode Material Design for Rechargeable Aqueous Zinc Ion Batteries. <b>2021</b> , 31, 2100005	16
921	Advanced Aqueous Zinc-Ion Batteries Enabled by 3D Ternary MnO/Reduced Graphene Oxide/Multiwall Carbon Nanotube Hybrids. <b>2021</b> , 9, 2100022	6
920	Frontiers in Hybrid Ion Capacitors: A Review on Advanced Materials and Emerging Devices. <b>2021</b> , 8, 1393-1429	6
919	Dendritic Zn Deposition in Zinc-Metal Batteries and Mitigation Strategies. <b>2021</b> , 2, 2000082	1
918	Rechargeable quasi-solid-state aqueous hybrid Al <sup>3+</sup> /H <sup>+</sup> battery with 10,000 ultralong cycle stability and smart switching capability. <b>2021</b> , 14, 4154	2
917	A Systematic Electrochemical Investigation of a Dimethylamine Cosolvent-Assisted Nonaqueous Zinc(II) Bis(trifluoromethylsulfonyl)imide Electrolyte. <b>2021</b> , 168, 030516	4
916	High-Voltage Zinc-Ion Batteries: Design Strategies and Challenges. <b>2021</b> , 31, 2010213	35
915	Micronanostructured Design of Dendrite-Free Zinc Anodes and Their Applications in Aqueous Zinc-Based Rechargeable Batteries. <b>2021</b> , 2, 2000128	33
914	Macroporous, Freestanding Birnessite H <sub>0.08</sub> MnO <sub>2</sub> ·0.7H <sub>2</sub> O Nanobelts/Carbon Nanotube Membranes for Wearable Zinc-Ion Batteries with Superior Rate Capability and Cyclability. <b>2021</b> , 4, 4138-4149	5
913	Reaction kinetics in rechargeable zinc-ion batteries. <b>2021</b> , 492, 229655	11
912	Optimizing engineering of rechargeable aqueous zinc ion batteries to enhance the zinc ions storage properties of cathode material. <b>2021</b> , 490, 229528	8
911	Eliminating Dendrites and Side Reactions via a Multifunctional ZnSe Protective Layer toward Advanced Aqueous Zn Metal Batteries. <b>2021</b> , 31, 2100186	29

910	Recent advances of vanadium-based cathode materials for zinc-ion batteries. <b>2021</b> , 32, 3753-3753	2
909	Recent Progress in Layered Manganese and Vanadium Oxide Cathodes for Zn-Ion Batteries. <b>2021</b> , 9, 2100011	6
908	Manipulating Zn anode reactions through salt anion involving hydrogen bonding network in aqueous electrolytes with PEO additive. <b>2021</b> , 82, 105739	40
907	Recent progress on the recycling technology of Li-ion batteries. <b>2021</b> , 55, 391-419	82
906	Ultrafast Zinc Ion Conductor Interface toward High-Rate and Stable Zinc Metal Batteries. <b>2021</b> , 11, 2100186	61
905	Sulfonic-Group-Grafted TiCT MXene: A Silver Bullet to Settle the Instability of Polyaniline toward High-Performance Zn-Ion Batteries. <b>2021</b> , 15, 9065-9075	22
904	Highly Reversible Aqueous Zn-MnO <sub>2</sub> Battery by Supplementing Mn <sup>2+</sup> -Mediated MnO <sub>2</sub> Deposition and Dissolution. <b>2021</b> , 31, 2101579	27
903	Insights on Flexible Zinc-Ion Batteries from Lab Research to Commercialization. <b>2021</b> , 33, e2007548	50
902	Heterometallic Seed-Mediated Zinc Deposition on Inkjet Printed Silver Nanoparticles Toward Foldable and Heat-Resistant Zinc Batteries. <b>2021</b> , 31, 2101607	35
901	Opportunities and challenges for aqueous metal-proton batteries. <b>2021</b> , 4, 1252-1273	10
900	Self-initiated coating of polypyrrole on MnO <sub>2</sub> /Mn <sub>2</sub> O <sub>3</sub> nanocomposite for high-performance aqueous zinc-ion batteries. <b>2021</b> , 545, 149041	11
899	Electrokinetic-Driven Fast Ion Delivery for Reversible Aqueous Zinc Metal Batteries with High Capacity. <b>2021</b> , 17, e2008059	7
898	Facile and Scalable Synthesis of 3D Structures of VO <sub>2</sub> ·2H <sub>2</sub> O Nanosheets Coated with Carbon toward Ultrafast and Ultrastable Zinc Storage. <b>2021</b> , 13, 18704-18712	6
897	Achieving better aqueous rechargeable zinc ion batteries with heterostructure electrodes. <b>2021</b> , 14, 3174-3187	13
896	Wearable Antifreezing Fiber-Shaped Zn/PANI Batteries with Suppressed Zn Dendrites and Operation in Sweat Electrolytes. <b>2021</b> , 13, 17608-17617	12
895	Sandwich Structure of 3D Porous Carbon and Water-Pillared V <sub>2</sub> O <sub>5</sub> Nanosheets for Superior Zinc-Ion Storage Properties. <b>2021</b> , 8, 1784-1791	4
894	Electrochemical Zinc Ion Capacitors: Fundamentals, Materials, and Systems. <b>2021</b> , 11, 2100201	37
893	Aqueous Rechargeable Zn-ion Batteries: Strategies for Improving the Energy Storage Performance. <b>2021</b> , 14, 1987-2022	15

892	Proton-assisted calcium-ion storage in aromatic organic molecular crystal with coplanar stacked structure. <b>2021</b> , 12, 2400	32
891	Constructing Three-Dimensional Structured V2O5/Conductive Polymer Composite with Fast Ion/Electron Transfer Kinetics for Aqueous Zinc-Ion Battery. <b>2021</b> , 4, 4208-4216	13
890	Impacts of fluorine in NASICON-type materials as cathodes for aqueous zinc ion batteries. <b>2021</b> , 9, 938	2
889	Progressive "Layer to Hybrid Spinel/Layer" Phase Evolution with Proton and Zn Co-intercalation to Enable High Performance of MnO-Based Aqueous Batteries. <b>2021</b> , 13, 22466-22474	3
888	A Low-Strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium-Ion Batteries. <b>2021</b> , 60, 13050-13056	35
887	Quicker and More Zn Storage Predominantly from the Interface. <b>2021</b> , 33, e2100359	35
886	A Safe Flexible Self-Powered Wristband System by Integrating Defective MnO Nanosheet-Based Zinc-Ion Batteries with Perovskite Solar Cells. <b>2021</b> , 15, 10597-10608	33
885	Stable Aqueous Anode-Free Zinc Batteries Enabled by Interfacial Engineering. <b>2021</b> , 31, 2101886	46
884	Using redox electrolytes to extend the charge storage capacity in an aqueous hybrid ion battery. <b>2021</b> , 411, 128416	3
883	Design and Fabrication of Transparent and Stretchable Zinc Ion Batteries. <b>2021</b> , 4, 6166-6179	7
882	High-Voltage and Super-Stable Aqueous Sodium-Zinc Hybrid Ion Batteries Enabled by Double Solvation Structures in Concentrated Electrolyte.. <b>2021</b> , 5, e2100418	3
881	High-rate aqueous zinc-organic battery achieved by lowering HOMO/LUMO of organic cathode. <b>2021</b> , 37, 378-386	32
880	Crossroads in the renaissance of rechargeable aqueous zinc batteries. <b>2021</b> , 45, 191-212	48
879	High performance flexible quasi-solid-state zinc-ion hybrid supercapacitors enable by electrode potential adjustment. <b>2021</b> , 495, 229789	4
878	A Low-Strain Potassium-Rich Prussian Blue Analogue Cathode for High Power Potassium-Ion Batteries. <b>2021</b> , 133, 13160-13166	3
877	Crystalline and amorphous MnO2 cathodes with open framework enable high-performance aqueous zinc-ion batteries. <b>2021</b> , 15, 202-215	1
876	Aqueous Rechargeable Multivalent Metal-Ion Batteries: Advances and Challenges. <b>2021</b> , 11, 2100608	33
875	Reduced Intercalation Energy Barrier by Rich Structural Water in Spinel ZnMnO for High-Rate Zinc-Ion Batteries. <b>2021</b> , 13, 23822-23832	12

874	The Role of Al -Based Aqueous Electrolytes in the Charge Storage Mechanism of MnO Cathodes. <b>2021</b> , 17, e2101515	4
873	Jahn-Teller Distortion Induced Mn-Rich Cathode Enables Optimal Flexible Aqueous High-Voltage Zn-Mn Batteries. <b>2021</b> , 8, 2004995	20
872	Boosted charge transfer in oxygen vacancy-rich K <sup>+</sup> birnessite MnO <sub>2</sub> for water oxidation and zinc-ion batteries. <b>2021</b> , 378, 138147	14
871	Recent advances in rechargeable Zn-based batteries. <b>2021</b> , 493, 229677	12
870	Rich Alkali Ions Preintercalated Vanadium Oxides for Durable and Fast Zinc-Ion Storage. <b>2021</b> , 6, 2111-2120	24
869	Manganese-Based Materials for Rechargeable Batteries beyond Lithium-Ion. <b>2021</b> , 11, 2100867	27
868	Modulating MnO Interface with Flexible and Self-Adhering Alkylphosphonic Layers for High-Performance Zn-MnO Batteries. <b>2021</b> , 13, 23724-23731	1
867	Realizing high-power and high-capacity zinc/sodium metal anodes through interfacial chemistry regulation. <b>2021</b> , 12, 3083	40
866	The energy storage mechanisms of MnO <sub>2</sub> in batteries. <b>2021</b> , 30, 100769	2
865	High-Capacity Aqueous Storage in Vanadate Cathodes Promoted by the Zn-Ion and Proton Intercalation and Conversion-Intercalation of Vanadyl Ions. <b>2021</b> , 13, 25993-26000	7
864	Mechanistic Insights of Mg <sup>2+</sup> -Electrolyte Additive for High-Energy and Long-Life Zinc-Ion Hybrid Capacitors. <b>2021</b> , 11, 2101158	30
863	Successive electrochemical conversion reaction to understand the performance of aqueous Zn/MnO <sub>2</sub> batteries with Mn <sup>2+</sup> additive. <b>2021</b> , 20, 100646	19
862	Tailoring Ultrahigh Energy Density and Stable Dendrite-Free Flexible Anode with Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Nanosheets and Hydrated Ammonium Vanadate Nanobelts for Aqueous Rocking-Chair Zinc Ion Batteries. <b>2021</b> , 31, 2103210	21
861	Comparison of Aqueous- and Non-Aqueous-Based Binder Polymers and the Mixing Ratios for Zn//MnO <sub>2</sub> Batteries with Mildly Acidic Aqueous Electrolytes. <b>2021</b> , 7, 40	3
860	Suppressing the oxygen-related parasitic reactions in NaTi(PO)-based hybrid capacitive deionization with cation exchange membrane. <b>2021</b> , 591, 139-147	8
859	High electrochemical performance of in-situ carbon-coated vanadyl ethylene glycolate as cathode for aqueous zinc-ion batteries. <b>2021</b> , 364, 115632	1
858	In Situ Lattice Tunnel Distortion of Vanadium Trioxide for Enhancing Zinc Ion Storage. <b>2021</b> , 11, 2100973	21
857	Zinc dendrite growth and inhibition strategies. <b>2021</b> , 20, 100692	38



856	Layered Barium Vanadate Cathodes for Aqueous Zinc Batteries: Enhancing Cycling Stability through Inhibition of Vanadium Dissolution. <b>2021</b> , 4, 6197-6204	6
855	Interfacial adsorption/insertion mechanism induced by phase boundary toward better aqueous Zn-ion battery. <b>2021</b> , 3, 1028-1036	101
854	Interlayer Structure Engineering of MXene-Based Capacitor-Type Electrode for Hybrid Micro-Supercapacitor toward Battery-Level Energy Density. <b>2021</b> , 8, e2100775	28
853	Oxygen Defects Engineering of VO <sub>2</sub> xH <sub>2</sub> O Nanosheets via In Situ Polypyrrole Polymerization for Efficient Aqueous Zinc Ion Storage. <b>2021</b> , 31, 2103070	37
852	A rechargeable aqueous zinc/sodium manganese oxides battery with robust performance enabled by Na <sub>2</sub> SO <sub>4</sub> electrolyte additive. <b>2021</b> , 38, 299-308	20
851	Advances and Perspectives of Cathode Storage Chemistry in Aqueous Zinc-Ion Batteries. <b>2021</b> , 15, 9244-9272	58
850	Manipulating Crystallographic Orientation of Zinc Deposition for Dendrite-free Zinc Ion Batteries. <b>2021</b> , 11, 2101299	77
849	MnO <sub>2</sub> @V <sub>2</sub> O <sub>5</sub> microspheres as cathode materials for high performance aqueous rechargeable Zn-ion battery. <b>2021</b> , 890, 115253	6
848	Intercalated polyaniline in V <sub>2</sub> O <sub>5</sub> as a unique vanadium oxide bronze cathode for highly stable aqueous zinc ion battery. <b>2021</b> , 38, 590-598	33
847	Tuning Surface Energy of Zn Anodes via Sn Heteroatom Doping Enabled by a Codeposition for Ultralong Life Span Dendrite-Free Aqueous Zn-Ion Batteries. <b>2021</b> , 13, 27085-27095	11
846	Impact of Binder Functional Groups on Controlling Chemical Reactions to Improve Stability of Rechargeable Zinc-Ion Batteries. <b>2021</b> , 4, 7138-7147	5
845	Design of honeycomb-like hierarchically porous carbons with engineered mesoporosity for aqueous zinc-ion hybrid supercapacitors applications. <b>2021</b> , 38, 102534	2
844	Water-Repellent Ionic Liquid Skinny Gels Customized for Aqueous Zn-Ion Battery Anodes. <b>2021</b> , 31, 2103850	22
843	Recent Advances in Transition Metal Dichalcogenide Cathode Materials for Aqueous Rechargeable Multivalent Metal-Ion Batteries. <b>2021</b> , 11,	5
842	Ultrafast and reversible anion storage of spinel nanoarchitecture for high-performance alkaline zinc full cells. <b>2021</b> , 8, 021408	1
841	The Emerging of Aqueous Zinc-Based Dual Electrolytic Batteries. <b>2021</b> , 17, e2008043	6
840	Reaction mechanisms and optimization strategies of manganese-based materials for aqueous zinc batteries. <b>2021</b> , 20, 100626	16
839	Employing the Dynamics of the Electrochemical Interface in Aqueous Zinc-Ion Battery Cathodes. <b>2021</b> , 31, 2102135	9



838	Recent Advances in Conversion-Type Electrode Materials for Post Lithium-Ion Batteries. <b>2021</b> , 3, 956-977	17
837	Construction of a Multifunctional Quasi-Gel Layer for Long-Life Aqueous Zinc Metal Anodes. <b>2021</b> , 13, 29746-29754	12
836	Alkali Ions Pre-Intercalated Layered MnO <sub>2</sub> Nanosheet for Zinc-Ions Storage. <b>2021</b> , 11, 2101287	25
835	Scalable and Controllable Synthesis of Interface-Engineered Nanoporous Host for Dendrite-Free and High Rate Zinc Metal Batteries. <b>2021</b> ,	39
834	Cathode strategies to improve the performance of zinc-ion batteries. e2100090	2
833	A Universal Compensation Strategy to Anchor Polar Organic Molecules in Bilayered Hydrated Vanadates for Promoting Aqueous Zinc-Ion Storage. <b>2021</b> , 33, e2102701	17
832	A novel 3-phenylpropylamine intercalated molecular bronze with ultrahigh layer spacing as a high-rate and stable cathode for aqueous zinc-ion batteries. <b>2021</b> , 1, 425-431	0
831	Bi <sub>2</sub> O <sub>3</sub> Induced Ultralong Cycle Lifespan and High Capacity of MnO <sub>2</sub> Nanotube Cathodes in Aqueous Zinc-Ion Batteries. <b>2021</b> , 4, 7355-7364	5
830	Ultrafast charge in Zn-based batteries through high-potential deposition. <b>2021</b> , 19, 100425	4
829	Microwave-Assisted Rapid Synthesis of NHVO Layered Oxide: A High Energy Cathode for Aqueous Rechargeable Zinc Ion Batteries. <b>2021</b> , 11,	1
828	Direct Detection and Visualization of the H Reaction Process in a VO Cathode for Aqueous Zinc-Ion Batteries. <b>2021</b> , 12, 7076-7084	1
827	Guest-species-incorporation in manganese/vanadium-based oxides: Towards high performance aqueous zinc-ion batteries. <b>2021</b> , 85, 105969	22
826	Atomic-scale unveiling of multiphase evolution during hydrated Zn-ion insertion in vanadium oxide. <b>2021</b> , 12, 4599	8
825	Hydrothermal synthesis of EMnO <sub>2</sub> nanorods for highly efficient zinc-ion storage. <b>2021</b> , 27, 3943-3950	1
824	A high capacity small molecule quinone cathode for rechargeable aqueous zinc-organic batteries. <b>2021</b> , 12, 4424	32
823	Harnessing oxygen vacancy in V <sub>2</sub> O <sub>5</sub> as high performing aqueous zinc-ion battery cathode. <b>2021</b> , 870, 159403	18
822	Wearable and Fully Biocompatible All-in-One Structured ?Paper-Like? Zinc Ion Battery. <b>2021</b> , 13, 34349-34356	3
821	Self-Assembling Films of Covalent Organic Frameworks Enable Long-Term, Efficient Cycling of Zinc-Ion Batteries. <b>2021</b> , 33, e2101726	31

820	Achieving long-cycle-life Zn-ion batteries through interfacial engineering of MnO <sub>2</sub> -polyaniline hybrid networks. <b>2021</b> , 28, e00254	7
819	Manganese oxides hierarchical microspheres as cathode material for high-performance aqueous zinc-ion batteries. <b>2021</b> , 385, 138447	7
818	Investigating Degradation Modes in Zn-AgO Aqueous Batteries with In Situ X-Ray Micro Computed Tomography. <b>2021</b> , 11, 2101327	5
817	Enabling high-performance aqueous rechargeable Li-ion batteries through systematic optimization of TiS <sub>2</sub> /LiFePO <sub>4</sub> full cell. <b>2021</b> , 553, 149496	1
816	Recent advances on redox active composites of metal-organic framework and conducting polymers as pseudocapacitor electrode material. <b>2021</b> , 145, 110854	13
815	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery. <b>2021</b> , 11, 2100962	9
814	Preparation and electrochemical properties of $\delta$ MnO <sub>2</sub> /rGO-PPy composite as cathode material for zinc-ion battery. <b>2021</b> , 56, 16582-16590	3
813	A high specific capacity aqueous zinc-manganese battery with a $\delta$ MnO <sub>2</sub> cathode. <b>2021</b> , 27, 3933-3941	3
812	Efforts at Enhancing Bifunctional Electrocatalysis and Related Events for Rechargeable Zinc-Air Batteries. <b>2021</b> , 8, 3998	6
811	A High-Voltage Zn-Organic Battery Using a Nonflammable Organic Electrolyte. <b>2021</b> , 133, 21193-21200	0
810	Bifunctional Hydrated Gel Electrolyte for Long-Cycling Zn-Ion Battery with NASICON-Type Cathode. <b>2021</b> , 31, 2105717	11
809	A flexible, heat-resistant and self-healable locking-chair zinc ion microbattery based on MXene-TiS <sub>2</sub> (de)intercalation anode. <b>2021</b> , 504, 230076	9
808	Strategies for constructing manganese-based oxide electrode materials for aqueous rechargeable zinc-ion batteries. <b>2021</b> , 100039	8
807	A High-Voltage Zn-Organic Battery Using a Nonflammable Organic Electrolyte. <b>2021</b> , 60, 21025-21032	15
806	Amino Acid-Induced Interface Charge Engineering Enables Highly Reversible Zn Anode. <b>2021</b> , 31, 2103514	33
805	Oxygen-Deficient $\delta$ MnO@Graphene Oxide Cathode for High-Rate and Long-Life Aqueous Zinc Ion Batteries. <b>2021</b> , 13, 173	13
804	Doping-Induced Static Activation of MnO <sub>2</sub> Cathodes for Aqueous Zn-Ion Batteries. <b>2021</b> , 9, 12223-12232	6
803	Molecular Engineering of Covalent Organic Framework Cathodes for Enhanced Zinc-Ion Batteries. <b>2021</b> , 33, e2103617	31

802	Stabilizing Zinc Anodes by Regulating the Electrical Double Layer with Saccharin Anions. <b>2021</b> , 33, e2100445	64
801	Molecular Engineering on MoS Enables Large Interlayers and Unlocked Basal Planes for High-Performance Aqueous Zn-Ion Storage. <b>2021</b> , 60, 20286-20293	26
800	A bimetallic oxide NiMnO <sub>3</sub> with perovskite structured as a high-performance cathode for zinc ion batteries. <b>2021</b> , 27, 4811	4
799	La <sub>0.14</sub> V <sub>2</sub> O <sub>5</sub> /Reduced Graphene Oxide Composite for Aqueous Zinc-Ion Batteries with Long Cycle Life. <b>2021</b> , 168, 080527	5
798	Realizing Stretchable Aqueous Zn-Based Batteries by Material and Structural Designs. <b>2021</b> , 9,	0
797	Designing Advanced Aqueous Zinc-Ion Batteries: Principles, Strategies and Perspectives.	7
796	Construction of Co-Mn Prussian Blue Analog Hollow Spheres for Efficient Aqueous Zn-ion Batteries. <b>2021</b> , 133, 22363-22368	2
795	Polyvinyl Pyrrolidone as Electrolyte Additive for Aqueous Zinc Batteries with MnO <sub>2</sub> Cathode. <b>2021</b> , 168, 080514	0
794	A Thin and Uniform Fluoride-Based Artificial Interphase for the Zinc Metal Anode Enabling Reversible Zn/MnO <sub>2</sub> Batteries. <b>2021</b> , 6, 3063-3071	39
793	Recent Advances on Spinel Zinc Manganate Cathode Materials for Zinc-Ion Batteries. <b>2021</b> ,	2
792	Construction of Co-Mn Prussian Blue Analog Hollow Spheres for Efficient Aqueous Zn-ion Batteries. <b>2021</b> , 60, 22189-22194	48
791	Multifold Electrochemical Protons and Zinc Ion Storage Behavior in Copper Vanadate Cathodes. <b>2021</b> , 4, 10197-10202	1
790	Molecular Engineering on MoS <sub>2</sub> Enables Large Interlayers and Unlocked Basal Planes for High-Performance Aqueous Zn-Ion Storage. <b>2021</b> , 133, 20448-20455	14
789	Oxygen-Defect Enhanced Anion Adsorption Energy Toward Super-Rate and Durable Cathode for Ni-Zn Batteries. <b>2021</b> , 13, 167	13
788	Aqueous Aluminum Cells: Mechanisms of Aluminum Anode Reactions and Role of the Artificial Solid Electrolyte Interphase. <b>2021</b> , 13, 37091-37101	9
787	Self-standing manganese dioxide/graphene carbon nanotubes film electrode for symmetric supercapacitor with high energy density and superior long cycling stability. <b>2021</b> , 47, 33020-33020	5
786	Insight into the Critical Role of Surface Hydrophilicity for Dendrite-Free Zinc Metal Anodes. <b>2021</b> , 6, 3078-3085	37
785	Defect-Rich MoO <sub>3</sub> Nanobelt Cathode for a High-Performance Hybrid Alkali/Acid Zn-MoO <sub>3</sub> Rechargeable Battery. <b>2021</b> , 9, 11524-11533	4

784	Dual-Function Electrolyte Additive for Highly Reversible Zn Anode. <b>2021</b> , 11, 2102010	47
783	Reducing Water Activity by Zeolite Molecular Sieve Membrane for Long-Life Rechargeable Zinc Battery. <b>2021</b> , 33, e2102415	37
782	Hybrid electrolyte-mediated nano-scaled $\text{Fe}_2\text{O}_3$ cathode for emerging aqueous zinc battery. <b>2021</b> , 390, 138883	4
781	Structure control in $\text{VN}_x\text{O}_y$ by hydrogen bond association extraction for enhanced zinc ion storage. <b>2021</b> , 389, 138722	2
780	Hydrothermal reaction induced phase transition of vanadium oxide towards high-performance zinc ion batteries cathode. <b>2021</b> , 27, 4793	1
779	First-row transition metal compounds for aqueous metal ion batteries. <b>2021</b> , 63, 195-195	3
778	Studying conversion mechanism to broaden cathode options in aqueous Zn-ion batteries.	12
777	Chemically Self-Charging Aqueous Zinc-Organic Battery. <b>2021</b> , 143, 15369-15377	16
776	Flexible high-energy and stable rechargeable vanadium-zinc battery based on oxygen defect modulated $\text{V}_2\text{O}_5$ cathode. <b>2021</b> , 87, 106164	13
775	Accessing the $2\text{V}/\text{V}^{\text{V}}/\text{V}^{\text{IV}}$ redox process of vanadyl phosphate cathode for aqueous batteries. <b>2021</b> , 507, 230270	1
774	Integrated 'all-in-one' strategy to stabilize zinc anodes for high-performance zinc-ion batteries.. <b>2022</b> , 9, nwab177	54
773	EQCM study of intercalation processes into electrodeposited $\text{MnO}_2$ electrode in aqueous zinc-ion battery electrolyte. <b>2021</b> , 892, 162142	4
772	Studying the Conversion Mechanism to Broaden Cathode Options in Aqueous Zinc-Ion Batteries. <b>2021</b> , 60, 25114-25121	17
771	A review of zinc-based battery from alkaline to acid. <b>2021</b> , 11, 100149	12
770	Phosphorus-doped carbon sheets decorated with $\text{SeS}_2$ as a cathode for aqueous Zn- $\text{SeS}_2$ battery. <b>2021</b> , 420, 129920	5
769	A Template-engaged, Self-doped Strategy to N-doped Hollow Carbon Nanoboxes for Zinc-ion Hybrid Supercapacitors.	0
768	Formation of $\text{Mn}_x\text{Zn}_y(\text{OH})_z\text{SO}_4 \cdot 5\text{H}_2\text{O}$ [not intercalation of Zn] is the basis of the neutral $\text{MnO}_2/\text{Zn}$ battery first discharge reaction. <b>2021</b> , 390, 138852	4
767	$\text{Zn}/\text{Ni}$ reaction in the alkaline zinc-air battery using a nickel-supported air electrode. <b>2021</b> , 21, 100823	3

766	,-Dimethylacetamide-Diluted Nitrate Electrolyte for Aqueous Zn//LiMnO Hybrid Ion Batteries. <b>2021</b> , 13, 46634-46643	3
765	Sulfur-Based Aqueous Batteries: Electrochemistry and Strategies. <b>2021</b> , 143, 15475-15489	23
764	Electrolyte Study with in Operando pH Tracking Providing Insight into the Reaction Mechanism of Aqueous Acidic Zn//MnO <sub>2</sub> Batteries. <b>2021</b> , 8, 3553-3566	5
763	In-situ electrochemical induced artificial solid electrolyte interphase for MnO@C nanocomposite enabling long-lived aqueous zinc-ion batteries. <b>2021</b> , 430, 132673	5
762	Understanding the Limited Electrochemical Zn-Ion Insertion into 2H-MoS <sub>2</sub> and 2H-WS <sub>2</sub> : A Case Study of 2H-NbS <sub>2</sub> . <b>2021</b> , 4, 8849-8856	2
761	Recent advances in electrochemically-efficient materials for zinc-ion hybrid supercapacitors. <b>2021</b> , 148, 111288	6
760	A Cascade Battery: Coupling Two Sequential Electrochemical Reactions in a Single Battery. <b>2021</b> , 33, e2105480	7
759	A high-performance aqueous rechargeable zinc battery based on organic cathode integrating quinone and pyrazine. <b>2021</b> , 40, 31-40	31
758	Suppressing Charge Disproportionation of MnO <sub>2</sub> Cathodes in Rechargeable Zinc Ion Batteries via Cooperative Jahn-Teller Distortion.	1
757	The controlled quinone introduction and conformation modification of polyaniline cathode materials for rechargeable aqueous zinc-polymer batteries. <b>2021</b> , 419, 129659	12
756	A facile coating strategy for high stability aqueous zinc ion batteries: Porous rutile nano-TiO <sub>2</sub> coating on zinc anode. <b>2021</b> , 421, 127367	10
755	Low-cost manganese dioxide semi-solid electrode for flow batteries. <b>2021</b> ,	6
754	Understanding of the electrochemical behaviors of aqueous zinc/manganese batteries: Reaction processes and failure mechanisms. <b>2021</b> ,	4
753	Potassium-Containing $\gamma$ -MnO <sub>2</sub> Nanotubes: The Impact of Hollow Regions on Electrochemistry. <b>2021</b> , 168, 090559	0
752	High-Energy Density Aqueous Zinc/Bdine Batteries with Ultra-long Cycle Life Enabled by the ZnI <sub>2</sub> Additive.	0
751	Precise Proton Redistribution for Two-Electron Redox in Aqueous Zinc/Manganese Dioxide Batteries. 2102055	13
750	High-performance reversible aqueous zinc-ion battery based on iron-doped alpha-manganese dioxide coated by polypyrrole. <b>2021</b> , 598, 419-429	13
749	Issues and rational design of aqueous electrolyte for Zn-ion batteries. <b>2021</b> , 1, 432-447	11

748	Achievement of a polymer-free KAc gel electrolyte for advanced aqueous K-Ion battery. <b>2021</b> , 41, 133-140	6
747	Al-Intercalated MnO <sub>2</sub> cathode with reversible phase transition for aqueous Zn-Ion batteries. <b>2021</b> , 42, 130375	30
746	Recent progress of carbon nanomaterials for high-performance cathodes and anodes in aqueous zinc ion batteries. <b>2021</b> , 41, 715-737	18
745	A novel rechargeable zinc/copper battery without a separator. <b>2021</b> , 42, 103109	0
744	Mild synthesis of superadhesive hydrogel electrolyte with low interfacial resistance and enhanced ionic conductivity for flexible zinc ion battery. <b>2021</b> , 600, 586-593	7
743	Flexible and anti-freezing zinc-ion batteries using a guar-gum/sodium-alginate/ethylene-glycol hydrogel electrolyte. <b>2021</b> , 41, 599-605	28
742	Tuning crystal structure of MnO <sub>2</sub> during different hydrothermal synthesis temperature and its electrochemical performance as cathode material for zinc ion battery. <b>2021</b> , 192, 110398	0
741	Modifying hydrogel electrolyte to induce zinc deposition for dendrite-free zinc metal anode. <b>2021</b> , 393, 139094	8
740	A self-healing neutral aqueous rechargeable Zn/MnO battery based on modified carbon nanotubes substrate cathode. <b>2021</b> , 600, 83-89	7
739	A porous puckered V <sub>2</sub> O <sub>5</sub> polymorph as new high performance cathode material for aqueous rechargeable zinc batteries. <b>2021</b> , 61, 459-468	4
738	Recent advances in vanadium-based materials for aqueous metal ion batteries: Design of morphology and crystal structure, evolution of mechanisms and electrochemical performance. <b>2021</b> , 41, 152-182	4
737	A hafnium oxide-coated dendrite-free zinc anode for rechargeable aqueous zinc-ion batteries. <b>2021</b> , 599, 467-475	52
736	Dendrite-free zinc anode enabled by zinc-chelating chemistry. <b>2021</b> , 41, 515-521	26
735	Construction of hierarchically porous biomass carbon using iodine as pore-making agent for energy storage. <b>2021</b> , 599, 351-359	3
734	Spontaneous knitting behavior of 6.7-nm thin (NH <sub>4</sub> ) <sub>0.38</sub> V <sub>2</sub> O <sub>5</sub> nano- ribbons for binder-free zinc-ion batteries. <b>2021</b> , 42, 286-294	10
733	Insights into host materials for aqueous proton batteries: structure, mechanism and prospect. <b>2021</b> , 89, 106400	9
732	Earth-abundant magnetite with carbon coatings as reversible cathodes for stretchable zinc-ion batteries. <b>2021</b> , 62, 552-562	3
731	Metallic V <sub>5</sub> S <sub>8</sub> microparticles with tunnel-like structure for high-rate and stable zinc-ion energy storage. <b>2021</b> , 42, 786-793	6

730	Stabilizing zinc deposition with sodium lignosulfonate as an electrolyte additive to improve the life span of aqueous zinc-ion batteries. <b>2021</b> , 601, 486-494	6
729	Acetate-based oversaturated gel electrolyte enabling highly stable aqueous Zn-MnO <sub>2</sub> battery. <b>2021</b> , 42, 240-251	10
728	Surface modification of manganese monoxide through chemical vapor deposition to attain high energy storage performance for aqueous zinc-ion batteries. <b>2021</b> , 601, 617-625	2
727	Surface-charge regulated TiO <sub>2</sub> nanotube arrays as scaffold for constructing binder-free high-performance supercapacitor. <b>2021</b> , 567, 150832	5
726	Enhancing the Cycling Stability of Transition-Metal-Oxide-Based Electrochemical Electrode via Pourbaix Diagram Engineering. <b>2021</b> , 42, 252-258	7
725	Challenges and design strategies for high performance aqueous zinc ion batteries. <b>2021</b> , 42, 533-569	16
724	Structural design and interfacial characteristics endow NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> coated zinc anode with high capacity and better cycling stability. <b>2021</b> , 425, 127699	0
723	Diffusion-driven fabrication of yolk-shell structured K-birnessite@mesoporous carbon nanospheres with rich oxygen vacancies for high-energy and high-power zinc-ion batteries. <b>2021</b> , 42, 753-763	7
722	Reversible proton co-intercalation boosting zinc-ion adsorption and migration abilities in bismuth selenide nanoplates for advanced aqueous batteries. <b>2021</b> , 42, 34-41	4
721	Aqueous rechargeable zinc batteries: Challenges and opportunities. <b>2021</b> , 30, 100801	3
720	Improving stability and reversibility via fluorine doping in aqueous zinc-manganese batteries. <b>2021</b> , 22, 100851	5
719	Suppressing Cu-based cathode dissolution in rechargeable aqueous zinc batteries with equilibrium principles. <b>2021</b> , 568, 150948	0
718	Realizing the leucoemeraldine-emeraldine-pernigraniline redox reactions in polyaniline cathode materials for aqueous zinc-polymer batteries. <b>2022</b> , 427, 131988	11
717	2,3-diaminophenazine as a high-rate rechargeable aqueous zinc-ion batteries cathode. <b>2022</b> , 607, 1262-1268	1
716	Interfacial parasitic reactions of zinc anodes in zinc ion batteries: Underestimated corrosion and hydrogen evolution reactions and their suppression strategies. <b>2022</b> , 64, 246-262	18
715	Cathode materials for aqueous zinc-ion batteries: A mini review. <b>2022</b> , 605, 828-850	16
714	Layered VO <sub>2</sub> @N-doped carbon composites for high-performance rechargeable aqueous zinc-ion batteries. <b>2022</b> , 428, 131211	15
713	2D metal patterns transformed from 3D printed stamps for flexible Zn//MnO <sub>2</sub> in-plane micro-batteries. <b>2022</b> , 429, 132196	5

712	An anode-free aqueous dual-ion battery.	1
711	Sodium manganese hexacyanoferrate as Zn ion host toward aqueous energy storage. <b>2021</b> , 881, 114968	7
710	Balanced kinetics between electrodes by carbon cloth@ZIF-8 for high rate performance zinc-ion hybrid capacitors. <b>2021</b> , 57, 8778-8781	5
709	Towards high-area-capacity aqueous zinc/manganese batteries: promoting MnO <sub>2</sub> dissolution by redox mediators.	21
708	Strategies of structural and defect engineering for high-performance rechargeable aqueous zinc-ion batteries. <b>2021</b> , 9, 19245-19281	9
707	Research Progress and Challenge of Aqueous Zinc Ion Battery. <b>2021</b> , 79, 158	4
706	In situ grown MnO <sub>2</sub> /graphdiyne oxide hybrid 3D nanoflowers for high-performance aqueous zinc-ion batteries. <b>2021</b> , 5, 5400-5409	7
705	Cathode Design for Aqueous Rechargeable Multivalent Ion Batteries: Challenges and Opportunities. <b>2021</b> , 31, 2010445	40
704	MnO <sub>2</sub> -based nanostructured materials for various energy applications. <b>2021</b> , 5, 3549-3575	7
703	Non-concentrated aqueous electrolytes with organic solvent additives for stable zinc batteries. <b>2021</b> , 12, 5843-5852	76
702	A high-performance free-standing Zn anode for flexible zinc-ion batteries. <b>2021</b> , 13, 10100-10107	7
701	Layered electrode materials for non-aqueous multivalent metal batteries. <b>2021</b> , 9, 19317-19345	3
700	A cation selective separator induced cathode protective layer and regulated zinc deposition for zinc ion batteries. <b>2021</b> , 9, 4734-4743	19
699	Mechanistic investigation of redox processes in Zn/MnO <sub>2</sub> battery in mild aqueous electrolytes. <b>2021</b> , 9, 20766-20775	5
698	Recent progress in aqueous zinc-ion batteries: a deep insight into zinc metal anodes. <b>2021</b> , 9, 6013-6028	30
697	In Situ Electrochemical Transformation Reaction of Ammonium-Anchored Heptavanadate Cathode for Long-Life Aqueous Zinc-Ion Batteries. <b>2021</b> , 13, 5034-5043	17
696	In Situ Oriented Mn Deficient ZnMnO@C Nanoarchitecture for Durable Rechargeable Aqueous Zinc-Ion Batteries. <b>2021</b> , 8, 2002636	32
695	Recent progress of dimensionally designed electrode nanomaterials in aqueous electrochemical energy storage. <b>2021</b> , 9, 9535-9572	19



694	Bio-inspired design of an in situ multifunctional polymeric solid electrolyte interphase for Zn metal anode cycling at 30 mA cm <sup>-2</sup> and 30 mA h cm <sup>-2</sup> .	66
693	Stable, high-performance, dendrite-free, seawater-based aqueous batteries. <b>2021</b> , 12, 237	67
692	Aqueous Zinc Batteries. 1-54	1
691	Intrinsic Structure Modification of Electrode Materials for Aqueous Metal-Ion and Metal-Air Batteries. <b>2021</b> , 31, 2006855	17
690	Nano Polymorphism-Enabled Redox Electrodes for Rechargeable Batteries. <b>2021</b> , 33, e2004920	13
689	Recent Advances in Polymer Electrolytes for Zinc Ion Batteries: Mechanisms, Properties, and Perspectives. <b>2020</b> , 10, 1903977	144
688	Co <sup>2+</sup> / <sup>3+</sup> / <sup>4+</sup> -Regulated Electron State of Mn-O for Superb Aqueous Zinc-Manganese Oxide Batteries. <b>2021</b> , 11, 2003203	54
687	High-Voltage Electrolytes for Aqueous Energy Storage Devices. <b>2020</b> , 3, 323-330	55
686	Recent Progress on High-Performance Cathode Materials for Zinc-Ion Batteries. <b>2021</b> , 2, 2000064	36
685	Carbon nanohorns/nanotubes: An effective binary conductive additive in the cathode of high energy-density zinc-ion rechargeable batteries. <b>2020</b> , 167, 431-438	27
684	Electrochemically activated MnO cathodes for high performance aqueous zinc-ion battery. <b>2020</b> , 402, 125509	45
683	The function of Mn <sup>2+</sup> additive in aqueous electrolyte for Zn/EMnO <sub>2</sub> battery. <b>2020</b> , 351, 136445	48
682	Appropriately hydrophilic/hydrophobic cathode enables high-performance aqueous zinc-ion batteries. <b>2020</b> , 30, 337-345	40
681	Mathematical modeling and numerical analysis of the discharge process of an alkaline zinc-cobalt battery. <b>2020</b> , 30, 101432	3
680	Charging activation and desulfurization of MnS unlock the active sites and electrochemical reactivity for Zn-ion batteries. <b>2020</b> , 75, 104869	31
679	Investigation of a Biomass Hydrogel Electrolyte Naturally Stabilizing Cathodes for Zinc-Ion Batteries. <b>2021</b> , 13, 745-754	22
678	NaVO microflowers as a stable cathode material for high-performance aqueous zinc-ion batteries.. <b>2020</b> , 10, 6807-6813	12
677	A zinc ion yarn battery with high capacity and fire retardancy based on a SiO nanoparticle doped ionogel electrolyte. <b>2020</b> , 16, 7432-7437	1

676	Roadmap for advanced aqueous batteries: From design of materials to applications. <b>2020</b> , 6, eaba4098	455
675	Revealing the Local pH Value Changes of Acidic Aqueous Zinc Ion Batteries with a Manganese Dioxide Electrode during Cycling. <b>2020</b> , 167, 020545	40
674	Effects of the Low Coulombic Efficiency of Zinc Anode on the Cycle Performance of Zn/Ni Battery. <b>2020</b> , 167, 130509	4
673	Highly Reversible Plating/Stripping of Porous Zinc Anodes for Multivalent Zinc Batteries. <b>2020</b> , 167, 140520	5
672	Hybrid Aqueous/Organic Electrolytes Enable the High-Performance Zn-Ion Batteries. <b>2019</b> , 2019, 2635310	21
671	Recent progress in the synthesis and applications of vertically aligned carbon nanotube materials. <b>2021</b> , 10, 1592-1623	2
670	A self-preserving pitted texture enables reversible topographic evolution and cycling on Zn metal anodes.	0
669	Recent progress in tackling Zn anode challenges for Zn ion batteries. <b>2021</b> , 9, 25750-25772	2
668	Electrolyte additives inhibit the surface reaction of aqueous sodium/zinc battery. <b>2021</b> , 608, 1481-1488	0
667	Hierarchical K-Birnessite-MnO Carbon Framework for High-Energy-Density and Durable Aqueous Zinc-Ion Battery. <b>2021</b> , 17, e2104557	8
666	Ceria-Spiderweb Nanosheets Unlock the Energy-Storage Properties in the Sleeping Triplite (Mn <sub>2</sub> (PO <sub>4</sub> )F).	0
665	Interfacial thermodynamics-inspired electrolyte strategy to regulate output voltage and energy density of battery chemistry. <b>2021</b> ,	6
664	Electrolyte Regulation of Bismuth Ions toward High-Performance Aqueous Manganese-based Batteries. <b>2021</b> , 3, 1558-1565	3
663	Electrochemically Activated Cu <sub>2</sub> Te as an Ultraflat Discharge Plateau, Low Reaction Potential, and Stable Anode Material for Aqueous Zn-Ion Half and Full Batteries. <b>2021</b> , 11, 2102607	9
662	MnO <sub>2</sub> Nanowires Anchored with Graphene Quantum Dots for Stable Aqueous Zinc-Ion Batteries. <b>2021</b> , 4, 10940-10947	2
661	Unraveling H/Zn Sequential Conversion Reactions in Tellurium Cathodes for Rechargeable Aqueous Zinc Batteries. <b>2021</b> , 12, 10163-10168	1
660	Rationally Designed Mn O -ZnMn O Hollow Heterostructures from Metal-Organic Frameworks for Stable Zn-Ion Storage. <b>2021</b> , 60, 25793-25798	6
659	Rationally Designed Mn <sub>2</sub> O <sub>3</sub> -ZnMn <sub>2</sub> O <sub>4</sub> Hollow Heterostructures from Metal-Organic Frameworks for Stable Zn-ion Storage.	1

658	Reaction mechanisms for electrolytic manganese dioxide in rechargeable aqueous zinc-ion batteries. <b>2021</b> , 11, 20777	2
657	Zn Metal Anodes for Zn-Ion Batteries in Mild Aqueous Electrolytes: Challenges and Strategies. <b>2021</b> , 11,	4
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605	A non-flammable hydrous organic electrolyte for sustainable zinc batteries.	38

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572	Hydrogen Bond Shielding Effect for High-Performance Aqueous Zinc Ion Batteries.. <b>2022</b> , e2107115	2
571	Scalable Spray Drying Production of Amorphous V <sub>2</sub> O <sub>5</sub> -EGO 2D Heterostructured Xerogels for High-Rate and High-Capacity Aqueous Zinc Ion Batteries.. <b>2022</b> , 18, e2105761	4
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567	Aluminum-copper alloy anode materials for high-energy aqueous aluminum batteries.. <b>2022</b> , 13, 576	8
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562	Toward Hydrogen-Free and Dendrite-Free Aqueous Zinc Batteries: Formation of Zincophilic Protective Layer on Zn Anodes.. <b>2022</b> , e2104866	22
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558	Understanding and Performance of the Zinc Anode Cycling in Aqueous Zinc-Ion Batteries and a Roadmap for the Future.	2
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553	Design Strategies for High-Energy-Density Aqueous Zinc Batteries.	4
552	Design Strategies for High-Energy-Density Aqueous Zinc Batteries.. <b>2022</b> ,	37
551	Block Copolymer-Derived Porous Carbon Fibers Enable High MnO <sub>2</sub> Loading and Fast Charging in Aqueous Zinc-Ion Battery.	0



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534	Synthesis of Nitrogen-Doped KMnO <sub>4</sub> with Oxygen Vacancy for Stable Zinc-Ion Batteries.. <b>2022</b> , e2106067	9
533	Aqueous Zn-ion batteries: Cathode Materials and Analysis. <b>2022</b> , 100954	1

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528	Highly Reversible and Anticorrosive Zn Anode Enabled by a Ag Nanowires Layer.. <b>2022</b> ,	3
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519	Enhanced Cathode Integrity for Zinc-Manganese Oxide Fiber Batteries by a Durable Protective Layer.	1
518	A two-electron transfer mechanism of the Zn-doped $\text{MnO}_2$ cathode toward aqueous Zn-ion batteries with ultrahigh capacity. <b>2022</b> , 10, 6762-6771	4
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516	Ultrathin Carbon Coated Preferentially Orientated $\text{V}_{10}\text{O}_{24} \cdot 2\text{H}_2\text{O}$ Nanosheets with Large Interplanar Spacing Toward Superior Zinc Storage.	
515	Historical development and novel concepts upon electrolytes for aqueous rechargeable batteries.	9

514	Navigating fast and uniform zinc deposition via a versatile metal-organic complex interphase.	15
513	Organics Intercalation into Layered Structures Enables Superior Interface Compatibility and Fast Charge Diffusion for Dendrite-Free Zn Anodes.	13
512	Initiating a high-temperature zinc ion battery through a triazolium-based ionic liquid.. <b>2022</b> , 12, 8394-8403	1
511	Simultaneous reversible tuning of H and Zn coinsertion in MnO cathode for high-capacity aqueous Zn-ion battery.. <b>2022</b> ,	1
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507	Electrolyte Engineering Enables High Performance Zinc-Ion Batteries.. <b>2022</b> , e2107033	17
506	Engineering Particle Size for Multivalent Ion Intercalation: Implications for Ion Battery Systems.	1
505	Electrospun V <sub>2</sub> O <sub>3</sub> @Carbon Nanofibers as a Flexible and Binder-Free Cathode for Highly Stable Aqueous Zn-Ion Full Batteries. <b>2022</b> , 5, 3525-3535	2
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500	The emerging aqueous ammonium-ion batteries.. <b>2021</b> ,	11
499	Enabling Reversible MnO/Mn Transformation by Al Addition for Aqueous Zn-MnO Hybrid Batteries.. <b>2022</b> ,	2
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497	Ca/Ni Codoping Enables the Integration of High-Rate and High-Capacity Zn-Ion Storage Performances for Layered Hydrated Vanadate. <b>2022</b> , 61, 4212-4221	0

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494	A Comprehensive Understanding of Interlayer Engineering in Layered Manganese and Vanadium Cathodes for Aqueous Zn-ion Batteries.. <b>2022</b> ,	3
493	Highly Crystalline Flower-Like Covalent-Organic Frameworks Enable Highly Stable Zinc Metal Anodes. <b>2022</b> , 5, 3715-3723	2
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483	Unveiling the Synergistic Effect of Ferroelectric Polarization and Domain Configuration for Reversible Zinc Metal Anodes.. <b>2022</b> , e2105980	3
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471	Unexpected Role of the Interlayer Dead Zn <sup>2+</sup> □ Strengthening the Nanostructures of VS <sub>2</sub> Cathodes for High-Performance Aqueous Zn-Ion Storage. 2104001	9
470	Electrochemical performance□ and behavior mechanism for Zn/LiFePO <sub>4</sub> battery in a slightly acid aqueous electrolyte.. <b>2022</b> ,	2
469	Float-charging protocol in rechargeable Zn□MnO <sub>2</sub> batteries: unraveling the key role of Mn <sup>2+</sup> additives in preventing spontaneous pH changes. <b>2022</b> , 107271	2
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463	Unveiling unique steric effect of threonine additive for highly reversible Zn anode. <b>2022</b> , 97, 107145	4
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- 448 Cathode Materials Challenge Varied with Different Electrolytes in Zinc Batteries. **2022**, 4, 190-204 4
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- 446 Redox Catalysis Promoted Activation of Sulfur Redox Chemistry for Energy-Dense Flexible Solid-State Zn-S Battery. **2021**, 5
- 445 Recent Developments and Challenges of Vanadium Oxides (V O ) Cathodes for Aqueous Zinc-Ion Batteries.. **2021**, e202100275 4
- 444 Frontiers and Structural Engineering for Building Flexible Zinc-Air Batteries.. **2021**, e2103954 6
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440	Polypyrrole-Coated KMn[Fe(CN)] Stabilizing Its Interfaces and Inhibiting Irreversible Phase Transition during the Zinc Storage Process in Aqueous Batteries.. <b>2021</b> ,	1
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432	Elastomer-Alginate Interface for High-Power and High-Energy Zn Metal Anodes. 2200318	8
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411	Production of fast-charge Zn-based aqueous batteries via interfacial adsorption of ion-oligomer complexes.. <b>2022</b> , 13, 2283	6
410	Ionic Liquid Electrolytes for Next-generation Electrochemical Energy Devices. <b>2022</b> , 100075	5
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404	Enriching Oxygen Vacancy Defects via Ag-O-Mn Bonds for Enhanced Diffusion Kinetics of $\text{EMnO}$ in Zinc-Ion Batteries.. <b>2022,</b>	0
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387	Hydrated ammonium manganese phosphates by electrochemically induced manganese-defect as cathode material for aqueous zinc ion batteries. <b>2022</b> ,	1
386	Realizing highly reversible and deeply rechargeable Zn anode by porous zeolite layer. <b>2022</b> , 540, 231659	0
385	CTAB controlled electrochemical deposition of manganese dioxide with enhanced performance in aqueous Zn-ion battery. <b>2022</b> , 282, 115777	0
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383	Zn-modified zeolites host for dendrite-free zinc metal anodes.	1
382	Design Concepts of Transition Metal Dichalcogenides for High-Performance Aqueous Zn-Ion Storage.	1
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364	A high-voltage and stable zinc-air battery enabled by dual-hydrophobic-induced proton shuttle shielding. <b>2022</b> ,	1
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361	Stabilizing Zinc Anodes by a Cotton Towel Separator for Aqueous Zinc-Ion Batteries.	4
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358	Achieving Highly Reversible Zinc Anodes via N, N-Dimethylacetamide Enabled Zn-Ion Solvation Regulation. 2202363	4
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356	Surface-Alloyed Nanoporous Zinc as Reversible and Stable Anodes for High-Performance Aqueous Zinc-Ion Battery. <b>2022</b> , 14,	7
355	Ionic Liquid-Softened Polymer Electrolyte for Anti-Drying Flexible Zinc Ion Batteries. <b>2022</b> , 14, 27287-27293	0
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352	Recent progress of artificial interfacial layers in aqueous Zn metal batteries. <b>2022</b> , 4, 100076	3
351	Recent advances in MOFs/MOF derived nanomaterials toward high-efficiency aqueous zinc ion batteries. <b>2022</b> , 468, 214642	5
350	A dendrite suppression coating formulated via electrophoretic deposition using Bi-functional surfactants for Zn-ion batteries. <b>2022</b> , 918, 165790	1
349	Laser-radiated tellurium vacancies enable high-performance telluride molybdenum anode for aqueous zinc-ion batteries. <b>2022</b> , 51, 29-37	2
348	MoS <sub>2</sub> with high 1T phase content enables fast reversible zinc-ion storage via pseudocapacitance. <b>2022</b> , 448, 137688	2
347	Electrochemical Stability of ZnMn <sub>2</sub> O <sub>4</sub> : Understanding Zn-Ion Rechargeable Battery Capacity and Degradation. <b>2022</b> , 126, 10957-10967	0
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344	Rechargeable Manganese dioxide-Zinc Batteries: A Review Focusing on Challenges and Optimization Strategies under Alkaline and Mild Acidic Electrolyte Mediums.	0
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341	Two-dimensional materials for aqueous zinc-ion batteries. <b>2022</b> , 9, 042001	1
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337	Manipulating Alloying Reaction to Achieve the Stable and Dendrite-free Zinc Metal Anodes. <b>2022</b> , 138048	2
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335	A freestanding hydroxylated carbon nanotube film boosting the stability of Zn metal anodes. <b>2022</b> , 103939	0

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324	Regulating proton distribution by ion exchange resin to achieve long lifespan aqueous Zn-MnO <sub>2</sub> battery. 2022, 51, 599-609	2
323	Electrolyte additive engineering for aqueous Zn ion batteries. 2022, 51, 733-755	15
322	Highly active crystal planes-oriented texture for reversible high-performance Zn metal batteries. 2022, 51, 550-558	1
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319	Chitosan modified filter paper separators with specific ion adsorption to inhibit side reactions and induce uniform Zn deposition for aqueous Zn batteries. 2022, 450, 137902	2
318	Integrated pyrazine-based porous aromatic frameworks/carbon nanotube composite as cathode materials for aqueous zinc ion batteries. 2022, 450, 138051	0
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316	Designing a Bimodal BaTiO <sub>3</sub> Artificial Layer to Boost the Dielectric Effect toward Highly Reversible Dendrite-Free Zn Metal Anodes.	0
315	Critical factors to inhibit water-splitting side reaction in carbon-based electrode materials for zinc metal anodes.	1
314	A hydrophobic layer of amino acid enabling dendrite-free Zn anodes for aqueous zinc-ion batteries.	4
313	Monodispersed flower-like MXene@VO <sub>2</sub> clusters for aqueous zinc ion batteries with superior rate performance. <b>2022</b> , 14, 11655-11663	1
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308	Toward practical aqueous zinc-ion batteries for electrochemical energy storage. <b>2022</b> , 6, 1733-1738	12
307	Dendrite-free and stable Zn metal anodes with ZnO protective layer.	
306	An Ultrahigh Rate and Stable Zinc Anode by Facet-Matching-Induced Dendrite Regulation. 2203835	6
305	A Volume Self-Regulation MoS <sub>2</sub> Superstructure Cathode for Stable and High Mass-Loaded Zn-Ion Storage. <b>2022</b> , 16, 12095-12106	1
304	Balanced interfacial ion concentration and migration steric hindrance promoting high-efficiency deposition/dissolution battery chemistry. 2204681	3
303	Understanding intercalation chemistry for sustainable aqueous zinc/manganese dioxide batteries.	6
302	Charge carrier unveiled.	
301	Cathodic Zn underpotential deposition: an evitable degradation mechanism in aqueous zinc-ion batteries. <b>2022</b> ,	7
300	Electrochemical Property of Solid-State MnO <sub>2</sub> -Zn Battery with the Combination of Improved Cathode and Solid Electrolyte. <b>2022</b> , 169, 080527	0
299	Vat Orange 7 as an Organic Electrode with Ultrafast Hydronium-ion Storage and Super-long Life for Rechargeable Aqueous Zinc Batteries. <b>2022</b> , 138776	1

298	Solvation Structures in Aqueous Metal-Ion Batteries. 2202068	3
297	An Anti-Aromatic Covalent Organic Framework Cathode with Dual-Redox Centers for Rechargeable Aqueous Zinc Batteries.	1
296	Stability Design Principles of Manganese-Based Oxides in Acid.	1
295	Synergetic Modulation of Ion Flux and Water Activity in a Single Zn <sup>2+</sup> Conductor Hydrogel Electrolyte for Ultrastable Aqueous Zinc-Ion Batteries.	1
294	Aqueous OH <sup>-</sup> /H <sup>+</sup> + Dual-Ion Zn-Based Batteries.	
293	Copper Hexacyanoferrate Solid-State Electrolyte Protection Layer on Zn Metal Anode for High-Performance Aqueous Zinc-Ion Batteries. 2203061	2
292	Activated Proton Storage in Molybdenum Selenide through Electronegativity Regulation. 2205874	0
291	Calcium-organic frameworks cathode for high-stable aqueous Zn/organic batteries. 2022, 107760	
290	Oxygen-Deficient MnO <sub>2</sub> Nanotube/Graphene/N, P Codoped Porous Carbon Composite Cathode To Achieve High-Performing Zinc-Ion Batteries. 2022, 14, 36668-36678	1
289	Construction of hollow mesoporous ZnMn <sub>2</sub> O <sub>4</sub> /C microspheres with carbon nanotubes embedded in shells for high-performance aqueous zinc ions batteries.	1
288	Salt Bridge-intermediated Three Phase Decoupling Electrolytes for High Voltage Electrolytic Aqueous Zinc-Manganese Dioxides Battery. 2022, 138775	
287	Reducing Zn-ion concentration gradient by SO <sub>4</sub> <sup>2-</sup> -immobilized interface coating for dendrite-free Zn anode. 2022, 138772	0
286	Conversion electrochemistry of copper selenides for robust and energetic aqueous batteries.	0
285	A Multifunctional Anti-Proton Electrolyte for High-Rate and Super-Stable Aqueous Zn-Vanadium Oxide Battery. 2022, 14,	3
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283	Tug-of-War in the Selection of Materials for Battery Technologies. 2022, 8, 105	0
282	Interfacial engineering of hydrated vanadate to promote the fast and highly reversible H <sup>+</sup> /Zn <sup>2+</sup> co-insertion processes for high-performance aqueous rechargeable batteries. 2022, 52, 473-484	0
281	The intercalation cathode materials of heterostructure MnS/MnO with dual ions defect embedded in N-doped carbon fibers for aqueous zinc ion batteries. 2022, 52, 180-188	2

280	Intrinsic structural optimization of zinc anode with uniform second phase for stable zinc metal batteries. <b>2022</b> , 52, 161-168	3
279	Synergistic co-reaction of Zn <sup>2+</sup> and H <sup>+</sup> with carbonyl groups towards stable aqueous zinc-organic batteries. <b>2022</b> , 52, 386-394	1
278	The secondary aqueous zinc-manganese battery. <b>2022</b> , 55, 105397	1
277	In situ synthesis of a self-supported MnO <sub>2</sub> -based cathode for high-performance zinc-ion batteries by K <sup>+</sup> pre-intercalation. <b>2022</b> , 604, 154578	2
276	Freestanding and Flexible Interfacial Layer Enables Bottom-Up Zn Deposition Toward Dendrite-Free Aqueous Zn-Ion Batteries. <b>2022</b> , 14,	1
275	Advanced Fiber-Shaped Aqueous Zn Ion Battery Integrated with Strain Sensor. <b>2022</b> , 14, 41045-41052	2
274	Advanced aqueous proton batteries: working mechanism, key materials, challenges and prospects. <b>2022</b> , 4, 100092	2
273	Regulating the plating process of zinc with highly efficient additive for long-life zinc anode. <b>2022</b> , 549, 232078	0
272	Structural engineering of MnO <sub>2</sub> cathode by Ag <sup>+</sup> incorporation for high capacity aqueous zinc-ion batteries. <b>2022</b> , 548, 232010	1
271	Dual-engineering of ammonium vanadate for enhanced aqueous and quasi-solid-state zinc ion batteries. <b>2022</b> , 52, 664-674	0
270	Dendrite-free Zn anodes enabled by a hierarchical zincophilic TiO <sub>2</sub> layer for rechargeable aqueous zinc-ion batteries. <b>2022</b> , 606, 154932	1
269	Modulating the V <sub>10O<sub>24</sub>(H<sub>2</sub>O)<sub>8</sub></sub> nanosheets decorated with carbon for enhanced and durable zinc storage. <b>2022</b> , 654, 130093	0
268	In-situ regulated competitive proton intercalation and deposition/dissolution reaction of MnO <sub>2</sub> for high-performance flexible zinc-manganese batteries. <b>2022</b> , 53, 72-78	1
267	Highly reversible Zn metal anodes enabled by multifunctional poly zinc acrylate protective coating. <b>2023</b> , 451, 139058	0
266	Self-healing of surface defects on Zn electrode for stable aqueous zinc-ion batteries via manipulating the electrode/electrolyte interphases. <b>2023</b> , 629, 916-925	1
265	Achieving high-energy and long-cycling aqueous zinc-metal batteries by highly reversible insertion mechanisms in Ti-substituted Na <sub>0.44</sub> MnO <sub>2</sub> cathode. <b>2023</b> , 451, 139059	1
264	Toward highly reversible aqueous zinc-ion batteries: nanoscale-regulated zinc nucleation via graphene quantum dots functionalized with multiple functional groups. <b>2023</b> , 452, 139090	2
263	Enhanced Electrochemical Performance of MnO <sub>2</sub> by V <sup>5+</sup> Doping.	0



262	Multifunctional polyzwitterion ionic liquid coating for long-lifespan and dendrite-free Zn metal anodes. <b>2022</b> , 10, 16952-16961	0
261	Emerging two-dimensional nanostructured manganese-based materials for electrochemical energy storage: recent advances, mechanisms, challenges, and prospects.	3
260	Reduced water activity in co-solvent electrolyte enables 2 V zinc-ion hybrid capacitors with prolonged stability and high energy density. <b>2022</b> , 10, 20431-20445	0
259	Advances in the regulation of kinetics of cathodic H <sup>+</sup> /Zn <sup>2+</sup> interfacial transport in aqueous Zn/MnO <sub>2</sub> electrochemistry.	1
258	Practical conversion-type titanium telluride anodes for high-capacity long-lifespan rechargeable aqueous zinc batteries. <b>2022</b> , 10, 16976-16985	1
257	Recent Advancement in Zn-Ion Batteries. <b>2022</b> , 1-27	0
256	Local structure and ion storage properties of vanadate cathode materials regulated by the pre-alkalization. <b>2022</b> , 10, 20552-20558	0
255	An aqueous copper battery enabled by Cu <sup>2+</sup> /Cu <sup>+</sup> and Cu <sup>3+</sup> /Cu <sup>2+</sup> redox conversion chemistry. <b>2022</b> , 58, 10076-10079	0
254	P-doped porous carbon derived from walnut shell for zinc ion hybrid capacitors. <b>2022</b> , 12, 24724-24733	0
253	Stepwise recycling of Fe, Cu, Zn and Ni from real electroplating sludge via coupled acidic leaching and hydrothermal and extraction routes. <b>2023</b> , 216, 114462	1
252	In-situ oriented oxygen-defect-rich Mn N O via nitridation and electrochemical oxidation based on industrial-scale Mn <sub>2</sub> O <sub>3</sub> to achieve high-performance aqueous zinc ion battery. <b>2023</b> , 76, 11-18	2
251	Study of Quaternary Ammonium Additives towards High-Rate Zinc Deposition and Dissolution Cycling for Application in Zinc-Based Rechargeable Batteries. <b>2022</b> , 8, 106	1
250	Ultrathin Polyaniline-Coated Single-Crystalline Mn <sub>2</sub> O <sub>3</sub> Nanoporous Ellipsoids with High Energy Density and Cyclability for Low-Cost Zinc-Ion Batteries. <b>2022</b> , 5, 12729-12736	1
249	Recent advances in cathode materials for aqueous zinc-ion batteries: Mechanisms, materials, challenges, and opportunities.	2
248	Ultralow-water-activity Electrolyte Endows Vanadium-based Zinc-ion Batteries with Durable Lifespan Exceeding 30 000 Cycles. <b>2022</b> ,	0
247	Bulk-phase and interface stability strategies of manganese oxide cathodes for aqueous Zn-MnOx batteries. 10,	0
246	Oxygen Vacancies Enhance H <sup>+</sup> Diffusion Kinetics for a Flexible and Lightweight Aqueous Zinc/Manganese Monoxide Battery. <b>2022</b> , 10, 12188-12196	0
245	Toward Dendrite-Free Deposition in Zinc-Based Flow Batteries: Status and Prospects. <b>2022</b> , 8, 117	0

244	Self-repairing interphase reconstructed in each cycle for highly reversible aqueous zinc batteries. <b>2022</b> , 13,	2
243	Synergistic Chaotropic Effect and Cathode Interface Thermal Release Effect Enabling Ultralow Temperature Aqueous Zinc Battery. 2203347	0
242	3D printed semi-solid zinc-manganese battery. <b>2022</b> ,	0
241	MXene ink hosting zinc anode for high performance of aqueous zinc metal batteries. <b>2022</b> ,	2
240	Formation of CuMn Prussian Blue Analog Double-shelled Nanoboxes Toward Long-life Zn-ion Batteries.	1
239	How to increase the potential of aqueous Zn-MnO <sub>2</sub> batteries: the effect of pH gradient electrolyte. <b>2022</b> , 141275	0
238	Triple-Functional Polyoxovanadate Cluster in Regulating Cathode, Anode, and Electrolyte for Tough Aqueous Zinc-Ion Battery. 2202671	9
237	Charge carriers for aqueous dual-ion batteries.	0
236	Rechargeable Batteries for Grid Scale Energy Storage.	14
235	Material Design and Energy Storage Mechanism of Mn-Based Cathodes for Aqueous Zinc-Ion Batteries.	0
234	Suppressing the Exacerbated Hydrogen Evolution of Porous Zn Anode with an Artificial Solid-Electrolyte Interphase Layer. <b>2022</b> , 14, 41988-41996	1
233	Understanding H <sub>2</sub> evolution electrochemistry to minimize solvated water impact on zinc anode performance. 2206754	4
232	Super-Fast and Super-Long-Life Rechargeable Zinc Battery. 2202784	0
231	Formation of CuMn Prussian Blue Analog Double-shelled Nanoboxes Toward Long-life Zn-ion Batteries.	0
230	Fiber-Based Materials for Aqueous Zinc Ion Batteries.	1
229	Hewettite ZnV <sub>6</sub> O <sub>16</sub> ·8H <sub>2</sub> O with Remarkably Stable Layers and Ultralarge Interlayer Spacing for High-Performance Aqueous Zn-Ion Batteries.	0
228	Hewettite ZnV <sub>6</sub> O <sub>16</sub> ·8H <sub>2</sub> O with Remarkably Stable Layers and Ultralarge Interlayer Spacing for High-Performance Aqueous Zn-Ion Batteries.	0
227	Ligand-Substitution Chemistry Enabling Wide-Voltage Aqueous Hybrid Electrolyte for Ultrafast-Charging Batteries. 2202478	0

226	g-C3N4-coated MnO <sub>2</sub> hollow nanorod cathode for stable aqueous Zn-ion batteries.	0
225	Developing a high-performance aqueous zinc battery with Zn <sup>2+</sup> pre-intercalated V <sub>3</sub> O <sub>7</sub> ·H <sub>2</sub> O cathode coupled with surface engineered metallic zinc anode. <b>2022</b> , 924, 116851	1
224	Alloying effects on inhibiting hydrogen evolution of Zn metal anode in rechargeable aqueous batteries. <b>2022</b> , 33, 104576	0
223	Highly reversible aqueous zinc-ion battery using the chelating agent triethanolamine as an electrolyte additive.	0
222	Applications of all-inorganic perovskites for energy storage.	0
221	Demixing the miscible liquids: toward biphasic battery electrolytes based on the kosmotropic effect.	2
220	An appropriate Zn <sup>2+</sup> /Mn <sup>2+</sup> concentration of the electrolyte enables superior performance of AZIBs.	0
219	Manipulating Oxygen Vacancies by K <sup>+</sup> Doping and Controlling Mn <sup>2+</sup> Deposition to Boost Energy Storage in MnO <sub>2</sub> . <b>2022</b> , 14, 47725-47736	0
218	Optimized Strategies to Enhance Electrochemical Properties of Ammonium Vanadates for Aqueous Zn ion Batteries. <b>2022</b> , 155408	1
217	Exploration of Calcium-Doped Manganese Monoxide Cathode for High-Performance Aqueous Zinc-Ion Batteries. <b>2022</b> , 36, 13296-13306	1
216	Design of Electrolyte for Zinc-Air Batteries. <b>2022</b> , 185-216	0
215	Tunable Vanadium Oxide Microflowers as High-Capacity Cathode Materials for Aqueous Rechargeable Zinc-Ion Batteries.	0
214	Enhanced Elastic Migration of Magnesium Cations in alpha-Manganese Dioxide Tunnels Locally Tuned by Aluminium Substitution. 2210519	0
213	Uniformly MXene-Grafted Eutectic Aluminum-Cerium Alloys as Flexible and Reversible Anode Materials for Rechargeable Aluminum-Ion Battery. 2211271	0
212	Inhibiting Dendrites on Zn Anode by ZIF-8 as Solid Electrolyte Additive for Aqueous Zinc ion Battery. <b>2022</b> , 130255	0
211	Unveiling the "Proton Lubricant" Chemistry in Aqueous Zinc-MoS <sub>2</sub> Batteries.	1
210	Heterostructures Stimulate Electric-Field to Facilitate Optimal Zn <sup>2+</sup> Intercalation in MoS <sub>2</sub> Cathode. 2204534	0
209	Organic interlayer engineering of TiS <sub>2</sub> for enhanced aqueous Zn ions storage. <b>2022</b> ,	0

208	Synergistic Design of Multifunctional Interfacial Zn Host toward Practical Zn Metal Batteries. 2202937	1
207	Intrinsically Stretchable Microbattery with Ultrahigh Deformability for Self-Powering Wearable Electronics. 2401-2408	0
206	Unveiling the "Proton Lubricant" Chemistry in Aqueous Zinc-MoS <sub>2</sub> Batteries.	0
205	Interfacial Designing of MnO <sub>2</sub> Half-Wrapped by Aromatic Polymers for High-Performance Aqueous Zinc-Ion Batteries.	0
204	Interfacial Designing of MnO <sub>2</sub> Half-Wrapped by Aromatic Polymers for High-Performance Aqueous Zinc-Ion Batteries.	2
203	Interface Engineering of Aqueous Zinc/Manganese Dioxide Batteries with High Areal Capacity and Energy Density. 2204683	0
202	V <sub>2</sub> O <sub>5</sub> as a versatile electrode material for post-lithium energy storage systems.	0
201	Highly Reversible Zn Metal Anodes Realized by Synergistically Enhancing Ion Migration Kinetics and Regulating Surface Energy. 2209028	1
200	A solid-to-solid metallic conversion electrochemistry toward 91% zinc utilization for sustainable aqueous batteries. <b>2022</b> , 8,	5
199	Rational Design of Sulfonamide-Based Additive Enables Stable Solid Electrolyte Interphase for Reversible Zn Metal Anode. 2210197	1
198	Hierarchically Porous Ferroelectric Layer with the Aligned Dipole Moment for a High-Performance Aqueous Zn Metal Battery. <b>2022</b> , 14, 48570-48581	0
197	MnO <sub>2</sub> cathode materials with high reversible stability through Li intercalating for aqueous zinc ion battery. <b>2022</b> , 386, 116049	1
196	Metal-organic frameworks for advanced aqueous ion batteries and supercapacitors. <b>2022</b> , 4, 100090	0
195	High Specific Capacity and Mechanism of a Metal-organic Framework Based Cathode for Aqueous Zinc-ion Batteries.	0
194	Reaction Mechanism for $\beta$ MnO <sub>2</sub> Cathode in Aqueous Zn Ion Batteries Revisited: Elucidating Irreversible Transformation of $\beta$ MnO <sub>2</sub> to Zn-vernadite.	0
193	From anode to cell: synergistic protection strategies and perspectives for stabilized Zn metal in mild aqueous electrolytes. <b>2023</b> , 54, 623-640	3
192	Stainless steel foil: A more appropriate current collector than titanium foil for the cathodes of aqueous zinc ion batteries. <b>2023</b> , 437, 141519	0
191	Graphene oxide suspension-based electrolyte promotes the cycling performance of aqueous sodium-ion batteries through the interaction between metal ions, free water molecules and functional groups. <b>2023</b> , 555, 232380	0

190	Electrochemical one-step synthesis of Mn <sub>3</sub> O <sub>4</sub> with tunable oxygen defects for high-performance aqueous zinc-ion batteries. <b>2023</b> , 934, 167933	0
189	Highly Reversible Zinc Metal Anode in a Dilute Aqueous Electrolyte Enabled by a pH Buffer Additive.	0
188	MOF-Derived Mn <sub>3</sub> O <sub>4</sub> @C Hierarchical Nanospheres as Cathodes for Aqueous Zinc-Ion Batteries.	0
187	Assisting Zn Storage in Layered Vanadyl Phosphate Cathode by Interactions with Oligoaniline Pillars for Rechargeable Aqueous Zinc Batteries. <b>2022</b> , 140323	0
186	Constructing Three-Dimensional Topological Zn Deposition for Long-Life Aqueous Zn-Ion Batteries. <b>2022</b> , 14, 51010-51017	0
185	Interface Reversible Electric Field Regulated by Amphoteric Charged Protein-Based Coating Toward High-Rate and Robust Zn Anode. <b>2022</b> , 14,	0
184	Recent advances and perspectives for Zn-based batteries: Zn anode and electrolyte. <b>2022</b> ,	2
183	High-performance Aqueous Zinc-organic Battery Achieved by Reasonable Molecular Design.	0
182	Insights into Chemical and Electrochemical Interactions between Zn Anode and Electrolytes in Aqueous Zn-Ion Batteries.	0
181	The Optimization of a Carbon Paper/MnO <sub>2</sub> Composite Current Collector for Manufacturing a High-Performance LiS Battery Cathode. <b>2022</b> , 12, 1596	0
180	Phase-Transformation-Activated MnCO <sub>3</sub> as Cathode Material of Aqueous Zinc-Ion Batteries. <b>2022</b> , 8, 239	0
179	Highly Reversible Zinc Metal Anode in a Dilute Aqueous Electrolyte Enabled by a pH Buffer Additive.	5
178	Suppressed Layered-to-Spinel Phase Transition in MnO <sub>2</sub> via van der Waals Interaction for Highly Stable Zn/MnO <sub>2</sub> Batteries. 2201142	3
177	Unraveling the high Energy efficiency for Zn  metal hexacyanoferrate batteries in a zinc-potassium hybrid configuration. <b>2022</b> , 104, 107990	0
176	Advances in solid-state fiber batteries for wearable bioelectronics. <b>2022</b> , 26, 101042	3
175	Binary solvents assisting the long-term stability of aqueous K/Zn hybrid batteries. <b>2022</b> , 101204	0
174	Cobalt-Doped MoS <sub>2</sub> ·nH <sub>2</sub> O Nanosheets Induced Heterogeneous Phases as High-Rate Capability and Long-Term Cyclability Cathodes for Wearable Zinc-Ion Batteries. <b>2022</b> ,	1
173	One-step co-precipitation of MnSe <sub>2</sub> /CNTs as a high-performance cathode material for zinc-ion batteries. <b>2022</b> ,	0

172	Incorporating polyimide cathode materials into porous polyaniline xerogel to optimize the zinc-storage behavior. <b>2022</b> , 33, 103878	0
171	A review on solutions to overcome the structural transformation of manganese dioxide-based cathodes for aqueous rechargeable zinc ion batteries. <b>2023</b> , 555, 232385	5
170	Simultaneous manipulation of electron/Zn <sup>2+</sup> ion flux and desolvation effect enabled by in-situ built ultra-thin oxide-based artificial interphase for controlled deposition of zinc metal anodes. <b>2023</b> , 456, 141015	1
169	Two-dimensional nanosheets of bimetallic chalcogenide-tagged nitrogen-doped carbon as a cathode for high-performance and durable zinc-ion capacitors.	0
168	Manganese-based cathode materials for aqueous rechargeable zinc-ion batteries: recent advance and future prospects. <b>2023</b> , 27, 101294	0
167	Few-layer MnO <sub>2</sub> nanosheets grown on three-dimensional N-doped hierarchically porous carbon networks for long-life aqueous zinc ion batteries. <b>2023</b> , 203, 326-336	0
166	Aqueous Zn-ion batteries using amorphous Zn-buserite with high activity and stability.	0
165	Discharge intermittency considerably changes ZnO spatial distribution in porous Zn anodes. <b>2023</b> , 556, 232460	0
164	Na <sup>+</sup> /K <sup>+</sup> -codoped amorphous manganese oxide with enhanced performance for aqueous sodium-ion battery. <b>2023</b> , 937, 168344	0
163	Solvothermally prepared hydrated VO <sub>2</sub> (B) for aqueous zinc ion batteries with high capacity and excellent rate capability. <b>2023</b> , 936, 168218	0
162	Zinc Batteries: Basics, Materials Functions, and Applications. <b>2022</b> , 1-37	0
161	Dynamic reconstruction of Ni <sub>7</sub> Zn alloy solid-electrolyte interface for highly stable Zn anode.	0
160	Building a seamless water-sieving MOF-based interphase for highly reversible Zn metal anodes. <b>2022</b> , 140510	0
159	Chitosan-Carboxymethylcellulose Hydrogels as Electrolytes for Zinc-Air Batteries: An Approach to the Transition towards Renewable Energy Storage Devices. <b>2022</b> , 8, 265	1
158	Ultrastable and ultrafast 3D charge/discharge network of robust chemically coupled 1T-MoS <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene heterostructure for aqueous Zn-ion batteries. <b>2022</b> , 140539	1
157	Interface challenges and optimization strategies for aqueous zinc-ion batteries. <b>2022</b> ,	1
156	Mechanically Improved Zn-Ion Battery Cathodes Based on Branched Aramid Nanofibers. <b>2022</b> , 126, 20293-20301	0
155	Revealing the Real Charge Carrier in Aqueous Zinc Batteries Based on Polythiophene/Manganese Dioxide Cathode. 2200221	0

- 154 Regulating Zinc Nucleation Sites and Electric Field Distribution to Achieve High-Performance Zinc Metal Anode via Surface Texturing. 2206634 0
- 153 Biocompatible zinc battery with programmable electro-crosslinked electrolyte. 2
- 152 A Highly Reversible Low-Cost Aqueous Sulfur/Manganese Redox Flow Battery. 429-435 0
- 151 Monolayer Thiol Engineered Covalent Interface toward Stable Zinc Metal Anode. 1
- 150 Ag-Doping Effect on MnO<sub>2</sub> Cathodes for Flexible Quasi-Solid-State Zinc-Ion Batteries. **2022**, 8, 267 1
- 149 Facile Construction of the Graphene-Supported Porous V<sub>2</sub>O<sub>3</sub> Nanocomposite Derived from the V-MOF@Graphene Precursor with Enhanced Performance for Aqueous Zinc-Ion Batteries. **2022**, 5, 14990-14999 0
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- 147 Hybrid Anionic Electrolytes for the High Performance of Aqueous Zinc-Ion Hybrid Supercapacitors. **2023**, 16, 248 0
- 146 Progress of Phosphate-based Polyanion Cathodes for Aqueous Rechargeable Zinc Batteries. 2211765 1
- 145 Three-In-One Organic-inorganic Heterostructures: From Scalable Ball-milling Synthesis to Freestanding Cathodes with High Areal Capacity for Aqueous Zinc-ion Batteries. **2022**, 141140 1
- 144 A Semi-solid Zinc Powder-based Slurry Anode for Advanced Aqueous Zinc-ion Batteries. 0
- 143 High-Energy and Long-Lived Zn/MnO<sub>2</sub> Battery Enabled by a Hydrophobic-Ion-Conducting Membrane. 0
- 142 A Semi-solid Zinc Powder-based Slurry Anode for Advanced Aqueous Zinc-ion Batteries. 0
- 141 Electrochemically Induced Defects Promotional High-Performance Binder-Free MnO@CC Cathodes for Flexible Quasi-Solid-State Zinc-Ion Battery. **2022**, 5, 15510-15519 2
- 140 Direct Ink Writing of 3D Zn Structures as High-Capacity Anodes for Rechargeable Alkaline Batteries. 2200323 0
- 139 Engineering p-Band Center of Oxygen Boosting H<sup>+</sup> Intercalation in  $\delta$ -MnO<sub>2</sub> for Aqueous Zinc Ion Batteries. 0
- 138 Engineering p-Band Center of Oxygen Boosting H<sup>+</sup> Intercalation in  $\delta$ -MnO<sub>2</sub> for Aqueous Zinc Ion Batteries. 1
- 137 Simultaneous Elucidation of Solid and Solution Manganese Environments via Multiphase Operando Extended X-ray Absorption Fine Structure Spectroscopy in Aqueous Zn/MnO<sub>2</sub> Batteries. 1

- 136 Selectivity of Electrochemical Ion Insertion into Manganese Dioxide Polymorphs. 0
- 135 Three-dimensional Zn-based alloys for dendrite-free aqueous Zn battery in dual-cation electrolytes. **2022**, 13, 1
- 134 Stabling Zinc Metal Anode with Polydopamine Regulation through Dual Effects of Fast Desolvation and Ion Confinement. 2203523 1
- 133 An aqueous magnesium-ion battery working at 50°C enabled by modulating electrolyte structure. **2022**, 140806 0
- 132 Proton storage chemistry in aqueous zinc-organic batteries: A review. 0
- 131 Aqueous Zinc-Chalcogen Batteries: Emerging Conversion-Type Energy Storage Systems. **2023**, 9, 62 0
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- 128 Hydrogel Electrolyte with High Tolerance to a Wide Spectrum of pHs and Compressive Energy Storage Devices Based on It. 2201448 0
- 127 Supramolecular Engineering of Cathode Materials for Aqueous Zinc-ion Hybrid Supercapacitors: Novel Thiophene-bridged Donor-Acceptor sp<sup>2</sup> Carbon-linked Polymers. 0
- 126 In situ construction of a stable composite solid electrolyte interphase for dendrite-free Zn batteries. **2023**, 0
- 125 Dendrite-Free Zn Anode Enabled by Anionic Surfactant-Induced Horizontal Growth for Highly-Stable Aqueous Zn-Ion Pouch Cells. 0
- 124 Recent advances in manipulating strategy of aqueous electrolytes for Zn anode stabilization. **2023**, 0
- 123 Achieving Ultralong-Cycle Zinc-Ion Battery via Synergistically Electronic and Structural Regulation of a MnO<sub>2</sub>/Carbon Hybrid Framework. 2207517 0
- 122 Aqueous transition-metal ion batteries: Materials and electrochemistry. **2023**, 100097 0
- 121 Wearable and Washable MnO<sub>2</sub>/Zn Battery Packaged by Vacuum Sealing. **2023**, 13, 265 0
- 120 Unraveling the Interphasial Chemistry for Highly Reversible Aqueous Zn Ion Batteries. 0
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- 118 Unraveling high-performance oxygen-deficient amorphous manganese oxide as the cathode for advanced zinc ion batteries. ○
- 117 Activating zinc-ion storage in MXene through Mn<sup>4+</sup> loading on surface terminations. ○
- 116 Tuning Discharge Behavior of Hollandite  $\beta$ -MnO<sub>2</sub> in Hydrated Zinc Ion Battery by Transition Metal Substitution. ○
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- 114 Insights on rational design and energy storage mechanism of Mn-based cathode materials towards high performance aqueous zinc-ion batteries. **2023**, 479, 215009 ○
- 113 Mo-Pre-Intercalated MnO<sub>2</sub> Cathode with Highly Stable Layered Structure and Expanded Interlayer Spacing for Aqueous Zn-Ion Batteries. **2023**, 15, 859-869 1
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- 111 Rational Design of Flexible Zn-Based Batteries for Wearable Electronic Devices. ○
- 110 How About Vanadium-Based Compounds as Cathode Materials for Aqueous Zinc Ion Batteries?. 2206907 ○
- 109 Valid design and evaluation of cathode and anode materials of aqueous zinc ion batteries with high-rate capability and cycle stability. ○
- 108 Integrated Uniformly Microporous C<sub>4</sub>N/Multi-Walled Carbon Nanotubes Composite Toward Ultra-Stable and Ultralow-Temperature Proton Batteries. 2207487 ○
- 107 Ultrahigh-Rate Zn Stripping and Plating by Capacitive Charge Carriers Enrichment Boosting Zn-Based Energy Storage. 2203165 ○
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- 83 Electrolytes in Organic Batteries. **2023**, 123, 1712-1773

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