Zhaodong Huang

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91 4,707 41 67 g-index

103 6,872 16.7 6.2 ext. papers ext. citations avg, IF L-index

| # | Paper | IF | Citations |
|----|---|--------|-----------|
| 91 | Voltage issue of aqueous rechargeable metal-ion batteries. <i>Chemical Society Reviews</i> , 2020 , 49, 180-232 | 2 58.5 | 301 |
| 90 | Do Zinc Dendrites Exist in Neutral Zinc Batteries: A Developed Electrohealing Strategy to In Situ Rescue In-Service Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903778 | 24 | 285 |
| 89 | Graphene-Rich Wrapped Petal-Like Rutile TiO tuned by Carbon Dots for High-Performance Sodium Storage. <i>Advanced Materials</i> , 2016 , 28, 9391-9399 | 24 | 226 |
| 88 | One-Dimensional Rod-Like SbBEBased Anode for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 19362-9 | 9.5 | 193 |
| 87 | Achieving High-Voltage and High-Capacity Aqueous Rechargeable Zinc Ion Battery by Incorporating Two-Species Redox Reaction. <i>Advanced Energy Materials</i> , 2019 , 9, 1902446 | 21.8 | 183 |
| 86 | A Wholly Degradable, Rechargeable Zn-TiC MXene Capacitor with Superior Anti-Self-Discharge Function. <i>ACS Nano</i> , 2019 , 13, 8275-8283 | 16.7 | 145 |
| 85 | Hydrogen-Substituted Graphdiyne Ion Tunnels Directing Concentration Redistribution for Commercial-Grade Dendrite-Free Zinc Anodes. <i>Advanced Materials</i> , 2020 , 32, e2001755 | 24 | 136 |
| 84 | Layer-Tunable Phosphorene Modulated by the Cation Insertion Rate as a Sodium-Storage Anode. <i>Advanced Materials</i> , 2017 , 29, 1702372 | 24 | 128 |
| 83 | 3D interconnected ultrathin cobalt selenide nanosheets as cathode materials for hybrid supercapacitors. <i>Electrochimica Acta</i> , 2018 , 269, 30-37 | 6.7 | 123 |
| 82 | An Overview of Fiber-Shaped Batteries with a Focus on Multifunctionality, Scalability, and Technical Difficulties. <i>Advanced Materials</i> , 2020 , 32, e1902151 | 24 | 117 |
| 81 | Metal-Organic Framework-Derived Materials for Sodium Energy Storage. <i>Small</i> , 2018 , 14, 1702648 | 11 | 102 |
| 80 | Phase Transition Induced Unusual Electrochemical Performance of VCT MXene for Aqueous Zinc Hybrid-Ion Battery. <i>ACS Nano</i> , 2020 , 14, 541-551 | 16.7 | 99 |
| 79 | Phosphorene as Cathode Material for High-Voltage, Anti-Self-Discharge Zinc Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2020 , 10, 2001024 | 21.8 | 96 |
| 78 | Cube-shaped Porous Carbon Derived from MOF-5 as Advanced Material for Sodium-Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 196, 413-421 | 6.7 | 92 |
| 77 | Molybdenum Phosphide: A Conversion-type Anode for Ultralong-Life Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 7313-7322 | 9.6 | 89 |
| 76 | Initiating Hexagonal MoO for Superb-Stable and Fast NH Storage Based on Hydrogen Bond Chemistry. <i>Advanced Materials</i> , 2020 , 32, e1907802 | 24 | 83 |
| 75 | A Flexible Solid-State Aqueous Zinc Hybrid Battery with Flat and High-Voltage Discharge Plateau. Advanced Energy Materials, 2019 , 9, 1902473 | 21.8 | 79 |

(2017-2020)

| 74 | Highly Efficient Electrochemical Reduction of Nitrogen to Ammonia on Surface Termination Modified TiCT MXene Nanosheets. <i>ACS Nano</i> , 2020 , 14, 9089-9097 | 16.7 | 71 |
|----------------|---|------|----|
| 73 | Vertically Aligned Sn4+ Preintercalated Ti2CTX MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. <i>Advanced Energy Materials</i> , 2020 , 10, 2001394 | 21.8 | 71 |
| 7 ² | Pinecone-like hierarchical anatase TiO2 bonded with carbon enabling ultrahigh cycling rates for sodium storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12591-12601 | 13 | 70 |
| 71 | Carbon-coated rutile titanium dioxide derived from titanium-metal organic framework with enhanced sodium storage behavior. <i>Journal of Power Sources</i> , 2016 , 325, 25-34 | 8.9 | 70 |
| 70 | Pseudo-Bonding and Electric-Field Harmony for Li-Rich Mn-Based Oxide Cathode. <i>Advanced Functional Materials</i> , 2020 , 30, 2004302 | 15.6 | 70 |
| 69 | Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1011-1021 | 16.4 | 70 |
| 68 | Size-Tunable Olive-Like Anatase TiO Coated with Carbon as Superior Anode for Sodium-Ion Batteries. <i>Small</i> , 2016 , 12, 5554-5563 | 11 | 65 |
| 67 | Preparation of S/N-codoped carbon nanosheets with tunable interlayer distance for high-rate sodium-ion batteries. <i>Green Chemistry</i> , 2017 , 19, 4622-4632 | 10 | 65 |
| 66 | A Usage Scenario Independent Air Chargeable Flexible Zinc Ion Energy Storage Device. <i>Advanced Energy Materials</i> , 2019 , 9, 1900509 | 21.8 | 59 |
| 65 | In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 2001791 | 21.8 | 56 |
| 64 | Enhanced stability of sodium storage exhibited by carbon coated Sb2S3 hollow spheres. <i>Materials Chemistry and Physics</i> , 2018 , 203, 185-192 | 4.4 | 54 |
| 63 | Electrochemical Exfoliation of Graphite into Nitrogen-doped Graphene in Glycine Solution and its Energy Storage Properties. <i>Electrochimica Acta</i> , 2016 , 204, 100-107 | 6.7 | 50 |
| 62 | Halogenated TiC MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. <i>ACS Nano</i> , 2021 , 15, 1077-1085 | 16.7 | 50 |
| 61 | Dendrites issues and advances in Zn anode for aqueous rechargeable Zn-based batteries. <i>EcoMat</i> , 2020 , 2, e12035 | 9.4 | 48 |
| 60 | Hydrated hybrid vanadium oxide nanowires as the superior cathode for aqueous Zn battery. <i>Materials Today Energy</i> , 2019 , 14, 100361 | 7 | 48 |
| 59 | Calendar Life of Zn Batteries Based on Zn Anode with Zn Powder/Current Collector Structure. Advanced Energy Materials, 2021 , 11, 2003931 | 21.8 | 48 |
| 58 | Cypress leaf-like Sb as anode material for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17549-17552 | 13 | 47 |
| 57 | Antimony Anchored with Nitrogen-Doping Porous Carbon as a High-Performance Anode Material for Na-Ion Batteries. <i>ACS Applied Materials & Description</i> (2017), 9, 26118-26125 | 9.5 | 47 |

| 56 | 3D Porous Carbon Encapsulated SnO2 Nanocomposite for Ultrastable Sodium Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 214, 156-164 | 6.7 | 47 |
|----|--|------|----|
| 55 | Commencing an Acidic Battery Based on a Copper Anode with Ultrafast Proton-Regulated Kinetics and Superior Dendrite-Free Property. <i>Advanced Materials</i> , 2019 , 31, e1905873 | 24 | 46 |
| 54 | Aqueous Zinc-Tellurium Batteries with Ultraflat Discharge Plateau and High Volumetric Capacity. <i>Advanced Materials</i> , 2020 , 32, e2001469 | 24 | 45 |
| 53 | Grafted MXene/polymer electrolyte for high performance solid zinc batteries with enhanced shelf life at low/high temperatures. <i>Energy and Environmental Science</i> , 2021 , 14, 3492-3501 | 35.4 | 44 |
| 52 | A zinc battery with ultra-flat discharge plateau through phase transition mechanism. <i>Nano Energy</i> , 2020 , 71, 104583 | 17.1 | 43 |
| 51 | Pd doping-weakened intermediate adsorption to promote electrocatalytic nitrate reduction on TiO2 nanoarrays for ammonia production and energy supply with zinclitrate batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 3938-3944 | 35.4 | 41 |
| 50 | Ni3S2/Ni nanosheet arrays for high-performance flexible zinc hybrid batteries with evident two-stage charge and discharge processes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18915-18924 | 13 | 39 |
| 49 | Enhanced Redox Kinetics and Duration of Aqueous I /I Conversion Chemistry by MXene Confinement. <i>Advanced Materials</i> , 2021 , 33, e2006897 | 24 | 39 |
| 48 | Activating the IO/I+ redox couple in an aqueous I2In battery to achieve a high voltage plateau. <i>Energy and Environmental Science</i> , 2021 , 14, 407-413 | 35.4 | 38 |
| 47 | Commencing mild AgIn batteries with long-term stability and ultra-flat voltage platform. <i>Energy Storage Materials</i> , 2020 , 25, 86-92 | 19.4 | 37 |
| 46 | Mo-doped Gray Anatase TiO 2 : Lattice Expansion for Enhanced Sodium Storage. <i>Electrochimica Acta</i> , 2016 , 219, 227-234 | 6.7 | 36 |
| 45 | Environmental Stability of MXenes as Energy Storage Materials. Frontiers in Materials, 2019, 6, | 4 | 35 |
| 44 | Zinc/selenium conversion battery: a system highly compatible with both organic and aqueous electrolytes. <i>Energy and Environmental Science</i> , 2021 , 14, 2441-2450 | 35.4 | 35 |
| 43 | MXene chemistry, electrochemistry and energy storage applications. Nature Reviews Chemistry, | 34.6 | 35 |
| 42 | Dual Functions of Potassium Antimony(III)-Tartrate in Tuning Antimony/Carbon Composites for Long-Life Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1705744 | 15.6 | 30 |
| 41 | Insight on Organic Molecules in Aqueous Zn-Ion Batteries with an Emphasis on the Zn Anode Regulation. <i>Advanced Energy Materials</i> ,2102707 | 21.8 | 29 |
| 40 | Confining Aqueous Zn-Br Halide Redox Chemistry by TiCT MXene. ACS Nano, 2021, 15, 1718-1726 | 16.7 | 28 |
| 39 | Metal-Tuned Acetylene Linkages in Hydrogen Substituted Graphdiyne Boosting the Electrochemical Oxygen Reduction. <i>Small</i> , 2020 , 16, e1907341 | 11 | 26 |

(2021-2020)

| 38 | A rechargeable AlN2 battery for energy storage and highly efficient N2 fixation. <i>Energy and Environmental Science</i> , 2020 , 13, 2888-2895 | 35.4 | 26 |
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| 37 | Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zinc-Iodine Battery with Improved Power and Energy Densities. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3791-3798 | 16.4 | 26 |
| 36 | Toward a Practical Zn Powder Anode: TiCT MXene as a Lattice-Match Electrons/Ions Redistributor. <i>ACS Nano</i> , 2021 , 15, 14631-14642 | 16.7 | 26 |
| 35 | Manipulating anion intercalation enables a high-voltage aqueous dual ion battery. <i>Nature Communications</i> , 2021 , 12, 3106 | 17.4 | 25 |
| 34 | Building durable aqueous K-ion capacitors based on MXene family 2022 , 2 | | 23 |
| 33 | Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , | 16.4 | 21 |
| 32 | Scalable synthesis of 2D hydrogen-substituted graphdiyne on Zn substrate for high-yield N2 fixation. <i>Nano Energy</i> , 2020 , 78, 105283 | 17.1 | 21 |
| 31 | Alternating Voltage Introduced [001]-Oriented EMoO3 Microrods for High-Performance Sodium-ion Batteries. <i>Electrochimica Acta</i> , 2017 , 245, 949-956 | 6.7 | 20 |
| 30 | Intrinsic voltage plateau of a Nb2CTx MXene cathode in an aqueous electrolyte induced by high-voltage scanning. <i>Joule</i> , 2021 , | 27.8 | 20 |
| 29 | Porous Carbon Induced Anatase TiO2Nanodots/Carbon Composites for High-Performance Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A3117-A3125 | 3.9 | 19 |
| 28 | Human joint-inspired structural design for a bendable/foldable/stretchable/twistable battery: achieving multiple deformabilities. <i>Energy and Environmental Science</i> , 2021 , 14, 3599-3608 | 35.4 | 19 |
| 27 | Metal-Tellurium Batteries: A Rising Energy Storage System. <i>Small Structures</i> , 2020 , 1, 2000005 | 8.7 | 18 |
| 26 | Alternating voltage induced ordered anatase TiO2 nanopores: An electrochemical investigation of sodium storage. <i>Journal of Power Sources</i> , 2016 , 336, 196-202 | 8.9 | 17 |
| 25 | Activated Flake Graphite Coated with Pyrolysis Carbon as Promising Anode for Lithium Storage. <i>Electrochimica Acta</i> , 2016 , 196, 405-412 | 6.7 | 17 |
| 24 | Evaluating the Storage Behavior of Superior Low-Cost Anode Material from Biomass for High-Rate Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1431-A1437 | 3.9 | 16 |
| 23 | Molecular Crowding Effect in Aqueous Electrolytes to Suppress Hydrogen Reduction Reaction and Enhance Electrochemical Nitrogen Reduction. <i>Advanced Energy Materials</i> , 2021 , 11, 2101699 | 21.8 | 16 |
| 22 | Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated TiC MXenes ACS Nano, 2021, | 16.7 | 15 |
| 21 | Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries. <i>Advanced Materials</i> , 2021 , e2106180 | 24 | 14 |

| 20 | Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zinc-Iodine Battery with Improved Power and Energy Densities. <i>Angewandte Chemie</i> , 2021 , 133, 3835-3842 | 3.6 | 14 |
|----|--|------|----|
| 19 | Initiating a wearable solid-state Mg hybrid ion full battery with high voltage, high capacity and ultra-long lifespan in air. <i>Energy Storage Materials</i> , 2020 , 31, 451-458 | 19.4 | 13 |
| 18 | Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie</i> , 2021 , 133, 1024-1034 | 3.6 | 11 |
| 17 | Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst. <i>Advanced Energy Materials</i> ,2103872 | 21.8 | 10 |
| 16 | Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries. <i>Advanced Materials</i> , 2021 , e2105426 | 24 | 10 |
| 15 | Regulating nitrogenous adsorption and desorption on Pd clusters by the acetylene linkages of hydrogen substituted graphdiyne for efficient electrocatalytic ammonia synthesis. <i>Nano Energy</i> , 2021 , 86, 106099 | 17.1 | 10 |
| 14 | A universal method towards conductive textile for flexible batteries with superior softness. <i>Energy Storage Materials</i> , 2021 , 36, 272-278 | 19.4 | 9 |
| 13 | Cathode Engineering for High Energy Density Aqueous Zn Batteries. Accounts of Materials Research, | 7.5 | 5 |
| 12 | Vacancy Modulating Co Sn S Topological Semimetal for Aqueous Zinc-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202111826 | 16.4 | 5 |
| 11 | Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance. <i>Nano Energy</i> , 2022 , 97, 107204 | 17.1 | 5 |
| 10 | In situ/operando analysis of surface reconstruction of transition metal-based oxygen evolution electrocatalysts. <i>Cell Reports Physical Science</i> , 2022 , 3, 100729 | 6.1 | 3 |
| 9 | Electrochemical Nitrate Production Nitrogen Oxidation with Atomically Dispersed Fe on N-Doped Carbon Nanosheets <i>ACS Nano</i> , 2021 , | 16.7 | 3 |
| 8 | Mechanistic Study of Interfacial Modification for Stable Zn Anode Based on a Thin Separator <i>Small</i> , 2022 , e2201045 | 11 | 3 |
| 7 | Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries <i>Nature Communications</i> , 2022 , 13, 752 | 17.4 | 2 |
| 6 | Vacancy Modulating Co3Sn2S2 Topological Semimetal for Aqueous Zinc-Ion Batteries. <i>Angewandte Chemie</i> , | 3.6 | 2 |
| 5 | Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries. <i>Materials Today</i> , 2021 , 51, 87-87 | 21.8 | 2 |
| 4 | Recent advances and future perspectives for aqueous zinc-ion capacitors 2022 , 1, 022101 | | 2 |
| 3 | Highly Thermally/Electrochemically Stable I [/] 3 [Bonded Organic Salts with High I Content for Long-Life Li[12 Batteries. <i>Advanced Energy Materials</i> ,2103648 | 21.8 | O |

LIST OF PUBLICATIONS

Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries. *Nano Energy*, **2022**, 98, 107278

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Organic materials-based cathode for zinc ion battery. SmartMat,

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