

# Ze Chen

## List of Publications by Year in descending order

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44  
papers

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citations

186265

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Zwitterionic Sulfobetaine Hydrogel Electrolyte Building Separated Positive/Negative Ion Migration Channels for Aqueous Zn <sup>2+</sup> /MnO <sub>2</sub> Batteries with Superior Rate Capabilities. <i>Advanced Energy Materials</i> , 2020, 10, 2000035.	19.5	287
2	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.	30.8	152
3	Phosphorene as Cathode Material for High-Voltage, Anti-Self-Discharge Zinc Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2020, 10, 2001024.	19.5	149
4	Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry. <i>Energy and Environmental Science</i> , 2022, 15, 1086-1096.	30.8	141
5	Toward a Practical Zn Powder Anode: Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene as a Lattice-Match Electrons/Ions Redistributor. <i>ACS Nano</i> , 2021, 15, 14631-14642.	14.6	137
6	Activating the I <sup>0</sup> /I <sup>+</sup> redox couple in an aqueous I <sub>2</sub> /Zn battery to achieve a high voltage plateau. <i>Energy and Environmental Science</i> , 2021, 14, 407-413.	30.8	129
7	Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	124
8	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1011-1021.	13.8	122
9	Enhanced Redox Kinetics and Duration of Aqueous I <sub>2</sub> /I <sup>•</sup> Conversion Chemistry by MXene Confinement. <i>Advanced Materials</i> , 2021, 33, e2006897.	21.0	121
10	Aqueous Zinc-Tellurium Batteries with Ultraflat Discharge Plateau and High Volumetric Capacity. <i>Advanced Materials</i> , 2020, 32, e2001469.	21.0	104
11	Manipulating anion intercalation enables a high-voltage aqueous dual ion battery. <i>Nature Communications</i> , 2021, 12, 3106.	12.8	104
12	Zinc/selenium conversion battery: a system highly compatible with both organic and aqueous electrolytes. <i>Energy and Environmental Science</i> , 2021, 14, 2441-2450.	30.8	93
13	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti <sub>3</sub> C <sub>2</sub> MXenes. <i>ACS Nano</i> , 2022, 16, 813-822.	14.6	90
14	A bio-inspired homogeneous graphene oxide actuator driven by moisture gradients. <i>Chemical Communications</i> , 2018, 54, 3126-3129.	4.1	79
15	Confining Aqueous Zn-Br Halide Redox Chemistry by Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene. <i>ACS Nano</i> , 2021, 15, 1718-1726.	14.6	78
16	Anion chemistry enabled positive valence conversion to achieve a record high-voltage organic cathode for zinc batteries. <i>Chem</i> , 2022, 8, 2204-2216.	11.7	65
17	Confined Assembly of Hollow Carbon Spheres in Carbonaceous Nanotube: A Spheres-in-Tube Carbon Nanostructure with Hierarchical Porosity for High-Performance Supercapacitor. <i>Small</i> , 2018, 14, e1704015.	10.0	64
18	High-Voltage Organic Cathodes for Zinc-Ion Batteries through Electron Cloud and Solvation Structure Regulation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	60

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19	Small Dipole Molecule Containing Electrolytes for High Voltage Aqueous Rechargeable Batteries. <i>Advanced Materials</i> , 2022, 34, e2106180.	21.0	58
20	Organic materials based cathode for zinc ion battery. <i>SmartMat</i> , 2022, 3, 565-581.	10.7	54
21	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.	30.8	49
22	Graphene oxide/poly (N-isopropylacrylamide) hybrid film-based near-infrared light-driven bilayer actuators with shape memory effect. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2971-2978.	7.8	48
23	Conversion Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries. <i>Advanced Materials</i> , 2021, 33, e2105426.	21.0	48
24	Metal Tellurium Batteries: A Rising Energy Storage System. <i>Small Structures</i> , 2020, 1, 2000005.	12.0	46
25	N- and O-doped hollow carbonaceous spheres with hierarchical porous structure for potential application in high-performance capacitance. <i>Journal of Power Sources</i> , 2017, 363, 356-364.	7.8	45
26	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.	16.0	34
27	Two Electron Redox Chemistry Enabled High Performance Iodide Ion Conversion Battery. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	34
28	Colloidal inks from bumpy colloidal nanoparticles for the assembly of ultrasoft and uniform structural colors. <i>Nanoscale</i> , 2017, 9, 17357-17363.	5.6	32
29	Cathode Engineering for High Energy Density Aqueous Zn Batteries. <i>Accounts of Materials Research</i> , 2022, 3, 78-88.	11.7	32
30	Rechargeable Aqueous Mn Metal Battery Enabled by Inorganic Organic Interfaces. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	31
31	Electrocatalytic Selenium Redox Reaction for High Mass Loading Zinc Selenium Batteries with Improved Kinetics and Selenium Utilization. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	29
32	Tellurium: A High-Performance Cathode for Magnesium Ion Batteries Based on a Conversion Mechanism. <i>ACS Nano</i> , 2022, 16, 5349-5357.	14.6	28
33	Stabilizing Interface pH by N Modified Graphdiyne for Dendrite Free and High Rate Aqueous Zn Ion Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	24
34	A spheres-in-tube carbonaceous nanostructure for high-capacity and high-rate lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14885-14893.	10.3	22
35	Effects of Anion Carriers on Capacitance and Self Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie</i> , 2021, 133, 1024-1034.	2.0	21
36	High Voltage Organic Cathodes for Zinc Ion Batteries through Electron Cloud and Solvation Structure Regulation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	20

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37	Ionic Liquid-Softened Polymer Electrolyte for Anti-Drying Flexible Zinc Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 27287-27293.	8.0	20
38	From ultratough artificial nacre to elastomer: Poly(n-butyl acrylate) grafted graphene oxide nanocomposites. Composites Part A: Applied Science and Manufacturing, 2016, 88, 156-164.	7.6	19
39	Shackling Effect Induced Property Differences in Metallo-Supramolecular Polymers. Journal of the American Chemical Society, 2017, 139, 14364-14367.	13.7	19
40	Precisely controlled growth of poly(ethyl acrylate) chains on graphene oxide and the formation of layered structure with improved mechanical properties. Composites Part A: Applied Science and Manufacturing, 2017, 93, 100-106.	7.6	19
41	Buckled Amorphous Hollow Carbon Spheres: Facile Fabrication, Buckling Process, and Applications as Electrode Materials for Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 30116-30124.	8.0	14
42	Carbonaceous and Polymer Materials for Li-S Batteries with an Emphasis on Flexible Devices. Advanced Energy and Sustainability Research, 2021, 2, 2000096.	5.8	6
43	Two-Electron Redox Chemistry Enabled High-Performance Iodide-Ion Conversion Battery. Angewandte Chemie, 2022, 134, .	2.0	4
44	Rechargeable Aqueous Mn-Metal Battery Enabled by Inorganic-Organic Interfaces. Angewandte Chemie, 2022, 134, .	2.0	0