**Zinc Batteries (2022-2024)**

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1. **Unveiling Organic Electrode Materials in Aqueous Zinc-Ion Batteries: From Structural Design to Electrochemical Performance (Review)**

Dujuan Li, Yuxuan Guo, Chenxing Zhang, Xianhe Chen, Weisheng Zhang, Shilin Mei & Chang-Jiang Yao

Nano-Micro Lett. 16, 194 (2024). <https://doi.org/10.1007/s40820-024-01404-6>

1. **Amphipathic Phenylalanine-Induced Nucleophilic–Hydrophobic Interface Toward Highly Reversible Zn Anode (Article)**

Anbin Zhou, Huirong Wang, Fengling Zhang, Xin Hu, Zhihang Song, Yi Chen, Yongxin Huang, Yanhua Cui, Yixiu Cui, Li Li, Feng Wu & Renjie Chen

Nano-Micro Lett. 16, 164 (2024). <https://doi.org/10.1007/s40820-024-01380-x>

1. **Design Principles and Mechanistic Understandings of Non-Noble-Metal Bifunctional Electrocatalysts for Zinc–Air Batteries (Review)**

Yunnan Gao, Ling Liu, Yi Jiang, Dexin Yu, Xiaomei Zheng, Jiayi Wang, Jingwei Liu, Dan Luo, Yongguang Zhang, Zhenjia Shi, Xin Wang, Ya-Ping Deng & Zhongwei Chen

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1. **Critical Solvation Structures Arrested Active Molecules for Reversible Zn Electrochemistry (Article)**

Junjie Zheng, Bao Zhang, Xin Chen, Wenyu Hao, Jia Yao, Jingying Li, Yi Gan, Xiaofang Wang, Xingtai Liu, Ziang Wu, Youwei Liu, Lin Lv, Li Tao, Pei Liang, Xiao Ji, Hao Wang & Houzhao Wan

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1. **A Review of Rechargeable Zinc–Air Batteries: Recent Progress and Future Perspectives (Review)**

Ghazanfar Nazir, Adeela Rehman, Jong-Hoon Lee, Choong-Hee Kim, Jagadis Gautam, Kwang Heo, Sajjad Hussain, Muhammad Ikram, Abeer A. AlObaid, Seul-Yi Lee & Soo-Jin Park

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1. **Weakly Polarized Organic Cation-Modified Hydrated Vanadium Oxides for High-Energy Efficiency Aqueous Zinc-Ion Batteries (Article)**

Xiaoxiao Jia, Chaofeng Liu, Zhi Wang, Di Huang & Guozhong Cao

Nano-Micro Lett. 16, 129 (2024). <https://doi.org/10.1007/s40820-024-01339-y>

1. **Thioacetamide Additive Homogenizing Zn Deposition Revealed by In Situ Digital Holography for Advanced Zn Ion Batteries (Article)**

Kaixin Ren, Min Li, Qinghong Wang, Baohua Liu, Chuang Sun, Boyu Yuan, Chao Lai, Lifang Jiao & Chao Wang

Nano-Micro Lett. 16, 117 (2024). <https://doi.org/10.1007/s40820-023-01310-3>

1. **Surface Patterning of Metal Zinc Electrode with an In-Region Zincophilic Interface for High-Rate and Long-Cycle-Life Zinc Metal Anode (Article)**

Tian Wang, Qiao Xi, Kai Yao, Yuhang Liu, Hao Fu, Venkata Siva Kavarthapu, Jun Kyu Lee, Shaocong Tang, Dina Fattakhova-Rohlfing, Wei Ai & Jae Su Yu

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1. **Fundamental Understanding of Hydrogen Evolution Reaction on Zinc Anode Surface: A First-Principles Study (Article)**

Xiaoyu Liu, Yiming Guo, Fanghua Ning, Yuyu Liu, Siqi Shi, Qian Li, Jiujun Zhang, Shigang Lu & Jin Yi

Nano-Micro Lett. 16, 111 (2024). <https://doi.org/10.1007/s40820-024-01337-0>

1. **Discovering Cathodic Biocompatibility for Aqueous Zn–MnO2 Battery: An Integrating Biomass Carbon Strategy (Article)**

Wei Lv, Zilei Shen, Xudong Li, Jingwen Meng, Weijie Yang, Fang Ding, Xing Ju, Feng Ye, Yiming Li, Xuefeng Lyu, Miaomiao Wang, Yonglan Tian & Chao Xu

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1. **A Sustainable Dual Cross-Linked Cellulose Hydrogel Electrolyte for High-Performance Zinc-Metal Batteries (Article)**

Haodong Zhang, Xiaotang Gan, Yuyang Yan & Jinping Zhou

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1. **Ultrathin Zincophilic Interphase Regulated Electric Double Layer Enabling Highly Stable Aqueous Zinc-Ion Batteries (Article)**

Yimei Chen, Zhiping Deng, Yongxiang Sun, Yue Li, Hao Zhang, Ge Li, Hongbo Zeng & Xiaolei Wang

Nano-Micro Lett. 16, 96 (2024). <https://doi.org/10.1007/s40820-023-01312-1>

1. **Polarizable Additive with Intermediate Chelation Strength for Stable Aqueous Zinc-Ion Batteries (Article)**

Yuting Xia, Rongao Tong, Jingxi Zhang, Mingjie Xu, Gang Shao, Hailong Wang, Yanhao Dong & Chang-An Wang

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1. **Covalent Organic Framework with 3D Ordered Channel and Multi-Functional Groups Endows Zn Anode with Superior Stability (Article)**

Bin Li, Pengchao Ruan, Xieyu Xu, Zhangxing He, Xinyan Zhu, Liang Pan, Ziyu Peng, Yangyang Liu, Peng Zhou, Bingan Lu, Lei Dai & Jiang Zhou

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1. **Design Strategies for Aqueous Zinc Metal Batteries with High Zinc Utilization: From Metal Anodes to Anode-Free Structures (Review)**

Xianfu Zhang, Long Zhang, Xinyuan Jia, Wen Song & Yongchang Liu

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1. **ZnO Additive Boosts Charging Speed and Cycling Stability of Electrolytic Zn–Mn Batteries (Article)**

Jin Wu, Yang Tang, Haohang Xu, Guandie Ma, Jinhong Jiang, Changpeng Xian, Maowen Xu, Shu-Juan Bao & Hao Chen

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1. **Intramolecular Hydrogen Bond Improved Durability and Kinetics for Zinc-Organic Batteries (Article)**

Tianjiang Sun, Jun Pan, Weijia Zhang, Xiaodi Jiang, Min Cheng, Zhengtai Zha, Hong Jin Fan & Zhanliang Tao

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Huibo Yan, Songmei Li, Jinyan Zhong & Bin Li

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1. **Hetero Nucleus Growth Stabilizing Zinc Anode for High-Biosecurity Zinc-Ion Batteries (Article)**

Jingjing Li, Zhexuan Liu, Shaohua Han, Peng Zhou, Bingan Lu, Jianda Zhou, Zhiyuan Zeng, Zhizhao Chen & Jiang Zhou

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1. **Fast and Stable Zinc Anode-Based Electrochromic Displays Enabled by Bimetallically Doped Vanadate and Aqueous Zn2+/Na+ Hybrid Electrolytes (Article)**

Zhaoyang Song, Bin Wang, Wu Zhang, Qianqian Zhu, Abdulhakem Y. Elezzabi, Linhua Liu, William W. Yu & Haizeng Li

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1. **Effectively Modulating Oxygen Vacancies in Flower-Like δ-MnO2 Nanostructures for Large Capacity and High-Rate Zinc-Ion Storage (Article)**

Yiwei Wang, Yuxiao Zhang, Ge Gao, Yawen Fan, Ruoxin Wang, Jie Feng, Lina Yang, Alan Meng, Jian Zhao & Zhenjiang Li

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1. **Zinc–Bromine Rechargeable Batteries: From Device Configuration, Electrochemistry, Material to Performance Evaluation (Review)**

Norah S. Alghamdi, Masud Rana, Xiyue Peng, Yongxin Huang, Jaeho Lee, Jingwei Hou, Ian R. Gentle, Lianzhou Wang & Bin Luo

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1. **Recent Advances in Structural Optimization and Surface Modification on Current Collectors for High-Performance Zinc Anode: Principles, Strategies, and Challenges (Review)**

Yuxin Gong, Bo Wang, Huaizheng Ren, Deyu Li, Dianlong Wang, Huakun Liu & Shixue Dou

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1. **Synergistic “Anchor-Capture” Enabled by Amino and Carboxyl for Constructing Robust Interface of Zn Anode (Article)**

Zhen Luo, Yufan Xia, Shuang Chen, Xingxing Wu, Ran Zeng, Xuan Zhang, Hongge Pan, Mi Yan, Tingting Shi, Kai Tao, Ben Bin Xu & Yinzhu Jiang

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1. **Highly Reversible Zn Metal Anodes Enabled by Increased Nucleation Overpotential (Article)**

Zhengqiang Hu, Fengling Zhang, Anbin Zhou, Xin Hu, Qiaoyi Yan, Yuhao Liu, Faiza Arshad, Zhujie Li, Renjie Chen, Feng Wu & Li Li

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1. **Heteroatom-Induced Accelerated Kinetics on Nickel Selenide for Highly Efficient Hydrazine-Assisted Water Splitting and Zn-Hydrazine Battery (Article)**

Hao-Yu Wang, Lei Wang, Jin-Tao Ren, Wen-Wen Tian, Ming-Lei Sun & Zhong-Yong Yuan

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1. **Aqueous Zinc Batteries with Ultra-Fast Redox Kinetics and High Iodine Utilization Enabled by Iron Single Atom Catalysts (Article)**

Xueya Yang, Huiqing Fan, Fulong Hu, Shengmei Chen, Kang Yan & Longtao Ma

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1. **Fundamental Understanding and Optimization Strategies for Dual-Ion Batteries: A Review (Review)**

Chong Chen, Chun-Sing Lee & Yongbing Tang

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1. **Trace Amounts of Triple-Functional Additives Enable Reversible Aqueous Zinc-Ion Batteries from a Comprehensive Perspective (Article)**

Ruwei Chen, Wei Zhang, Quanbo Huang, Chaohong Guan, Wei Zong, Yuhang Dai, Zijuan Du, Zhenyu Zhang, Jianwei Li, Fei Guo, Xuan Gao, Haobo Dong, Jiexin Zhu, Xiaohui Wang & Guanjie He

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1. **Quasi-Solid Electrolyte Interphase Boosting Charge and Mass Transfer for Dendrite-Free Zinc Battery (Article)**

Xueer Xu, Yifei Xu, Jingtong Zhang, Yu Zhong, Zhongxu Li, Huayu Qiu, Hao Bin Wu, Jie Wang, Xiuli Wang, Changdong Gu & Jiangping Tu

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1. **An Air-Rechargeable Zn Battery Enabled by Organic–Inorganic Hybrid Cathode (Article)**

Junjie Shi, Ke Mao, Qixiang Zhang, Zunyu Liu, Fei Long, Li Wen, Yixin Hou, Xinliang Li, Yanan Ma, Yang Yue, Luying Li, Chunyi Zhi & Yihua Gao

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1. **Mutual Self-Regulation of d-Electrons of Single Atoms and Adjacent Nanoparticles for Bifunctional Oxygen Electrocatalysis and Rechargeable Zinc-Air Batteries (Article)**

Sundaram Chandrasekaran, Rong Hu, Lei Yao, Lijun Sui, Yongping Liu, Amor Abdelkader, Yongliang Li, Xiangzhong Ren & Libo Deng

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1. **Inducing Fe 3d Electron Delocalization and Spin-State Transition of FeN4 Species Boosts Oxygen Reduction Reaction for Wearable Zinc–Air Battery (Article)**

Shengmei Chen, Xiongyi Liang, Sixia Hu, Xinliang Li, Guobin Zhang, Shuyun Wang, Longtao Ma, Chi-Man Lawrence Wu, Chunyi Zhi & Juan Antonio Zapien

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1. **3D Artificial Array Interface Engineering Enabling Dendrite-Free Stable Zn Metal Anode (Article)**

Jianbin Ruan, Dingtao Ma, Kefeng Ouyang, Sicheng Shen, Ming Yang, Yanyi Wang, Jinlai Zhao, Hongwei Mi & Peixin Zhang

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1. **Molecular Engineering Design for High-Performance Aqueous Zinc-Organic Battery (Article)**

Tianjiang Sun, Weijia Zhang, Qingshun Nian & Zhanliang Tao

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1. **Ultrafast Synthesis of Metal-Layered Hydroxides in a Dozen Seconds for High-Performance Aqueous Zn (Micro-) Battery (Article)**

Xiangyang Li, Fangshuai Chen, Bo Zhao, Shaohua Zhang, Xiaoyu Zheng, Ying Wang, Xuting Jin, Chunlong Dai, Jiaqi Wang, Jing Xie, Zhipan Zhang & Yang Zhao

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1. **Aerophilic Triphase Interface Tuned by Carbon Dots Driving Durable and Flexible Rechargeable Zn-Air Batteries (Article)**

Kuixing Ding, Yu Ye, Jiugang Hu, Liming Zhao, Wei Jin, Jia Luo, Shan Cai, Baicheng Weng, Guoqiang Zou, Hongshuai Hou & Xiaobo Ji

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1. **3D Interconnected Honeycomb-Like Multifunctional Catalyst for Zn–Air Batteries (Article)**

Tianxu Jin, Junli Nie, Mei Dong, Binling Chen, Jun Nie & Guiping Ma

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1. **Interface Reversible Electric Field Regulated by Amphoteric Charged Protein-Based Coating Toward High-Rate and Robust Zn Anode (Article)**

Meihua Zhu, Qing Ran, Houhou Huang, Yunfei Xie, Mengxiao Zhong, Geyu Lu, Fu-Quan Bai, Xing-You Lang, Xiaoteng Jia & Danming Chao

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1. **Metal–Organic Frameworks Functionalized Separators for Robust Aqueous Zinc-Ion Batteries (Article)**

Yang Song, Pengchao Ruan, Caiwang Mao, Yuxin Chang, Ling Wang, Lei Dai, Peng Zhou, Bingan Lu, Jiang Zhou & Zhangxing He

Nano-Micro Lett. 14, 218 (2022). <https://doi.org/10.1007/s40820-022-00960-z>

1. **Iodine Promoted Ultralow Zn Nucleation Overpotential and Zn-Rich Cathode for Low-Cost, Fast-Production and High-Energy Density Anode-Free Zn-Iodine Batteries (Article)**

Yixiang Zhang, Lequan Wang, Qingyun Li, Bo Hu, Junming Kang, Yuhuan Meng, Zedong Zhao & Hongbin Lu

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1. **Solid Electrolyte Interface in Zn-Based Battery Systems (Review)**

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1. **Supramolecular Polymer Intertwined Free-Standing Bifunctional Membrane Catalysts for All-Temperature Flexible Zn–Air Batteries (Article)**

Nayantara K. Wagh, Sambhaji S. Shinde, Chi Ho Lee, Sung-Hae Kim, Dong-Hyung Kim, Han-Don Um, Sang Uck Lee & Jung-Ho Lee

Nano-Micro Lett. 14, 190 (2022). <https://doi.org/10.1007/s40820-022-00927-0>

1. **Freestanding and Flexible Interfacial Layer Enables Bottom-Up Zn Deposition Toward Dendrite-Free Aqueous Zn-Ion Batteries (Article)**

Hangjun Ying, Pengfei Huang, Zhao Zhang, Shunlong Zhang, Qizhen Han, Zhihao Zhang, Jianli Wang & Wei-Qiang Han

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1. **MOF-Derived Co and Fe Species Loaded on N-Doped Carbon Networks as Efficient Oxygen Electrocatalysts for Zn-Air Batteries (Article)**

Yuanyuan Xue, Yibo Guo, Qinming Zhang, Zhaojun Xie, Jinping Wei & Zhen Zhou

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1. **A Multifunctional Anti-Proton Electrolyte for High-Rate and Super-Stable Aqueous Zn-Vanadium Oxide Battery (Article)**

Yangwu Chen, Dingtao Ma, Kefeng Ouyang, Ming Yang, Sicheng Shen, Yanyi Wang, Hongwei Mi, Lingna Sun, Chuanxin He & Peixin Zhang

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1. **Surface-Alloyed Nanoporous Zinc as Reversible and Stable Anodes for High-Performance Aqueous Zinc-Ion Battery (Article)**

Huan Meng, Qing Ran, Tian-Yi Dai, Hang Shi, Shu-Pei Zeng, Yong-Fu Zhu, Zi Wen, Wei Zhang, Xing-You Lang, Wei-Tao Zheng & Qing Jiang

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1. **Cyclohexanedodecol-Assisted Interfacial Engineering for Robust and High-Performance Zinc Metal Anode (Article)**

Zhenzhen Wu, Meng Li, Yuhui Tian, Hao Chen, Shao-Jian Zhang, Chuang Sun, Chengpeng Li, Milton Kiefel, Chao Lai, Zhan Lin & Shanqing Zhang

Nano-Micro Lett. 14, 110 (2022). <https://doi.org/10.1007/s40820-022-00846-0>

1. **Cooperative Chloride Hydrogel Electrolytes Enabling Ultralow-Temperature Aqueous Zinc Ion Batteries by the Hofmeister Effect (Article)**

Changyuan Yan, Yangyang Wang, Xianyu Deng & Yonghang Xu

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1. **Building Ultra-Stable and Low-Polarization Composite Zn Anode Interface via Hydrated Polyzwitterionic Electrolyte Construction (Article)**

Qiong He, Guozhao Fang, Zhi Chang, Yifang Zhang, Shuang Zhou, Miao Zhou, Simin Chai, Yue Zhong, Guozhong Cao, Shuquan Liang & Anqiang Pan

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1. **Boosting Zn||I2 Battery’s Performance by Coating a Zeolite-Based Cation-Exchange Protecting Layer (Article)**

Wenshuo Shang, Qiang Li, Fuyi Jiang, Bingkun Huang, Jisheng Song, Shan Yun, Xuan Liu, Hideo Kimura, Jianjun Liu & Litao Kang

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1. **Ultra-Low-Dose Pre-Metallation Strategy Served for Commercial Metal-Ion Capacitors (Article)**

Zirui Song, Guiyu Zhang, Xinglan Deng, Kangyu Zou, Xuhuan Xiao, Roya Momen, Abouzar Massoudi, Wentao Deng, Jiugang Hu, Hongshuai Hou, Guoqiang Zou & Xiaobo Ji

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1. **Stable Zn Metal Anodes with Limited Zn-Doping in MgF2 Interphase for Fast and Uniformly Ionic Flux (Article)**

Ji Young Kim, Guicheng Liu, Ryanda Enggar Anugrah Ardhi, Jihun Park, Hansung Kim & Joong Kee Lee

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1. **Zinc Anode for Mild Aqueous Zinc-Ion Batteries: Challenges, Strategies, and Perspectives (Review)**

Jinzhang Yang, Bosi Yin, Ying Sun, Hongge Pan, Wenping Sun, Baohua Jia, Siwen Zhang & Tianyi Ma

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1. **Stable Zinc Anodes Enabled by Zincophilic Cu Nanowire Networks (Article)**

Shiyin Xie, Yang Li, Xu Li, Yujun Zhou, Ziqi Dang, Jianhua Rong & Liubing Dong

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1. **Atomically Dispersed Transition Metal-Nitrogen-Carbon Bifunctional Oxygen Electrocatalysts for Zinc-Air Batteries: Recent Advances and Future Perspectives (Review)**

Fang Dong, Mingjie Wu, Zhangsen Chen, Xianhu Liu, Gaixia Zhang, Jinli Qiao & Shuhui Sun

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1. **Manipulating Interfacial Stability Via Absorption-Competition Mechanism for Long-Lifespan Zn Anode (Article)**

Meijia Qiu, Liang Ma, Peng Sun, Zilong Wang, Guofeng Cui & Wenjie Mai

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Bin Li, Xiaotan Zhang, Tingting Wang, Zhangxing He, Bingan Lu, Shuquan Liang & Jiang Zhou

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