**Aqueous Batteries (2022-2024)**

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1. **A Molecular-Sieving Interphase Towards Low-Concentrated Aqueous Sodium-Ion Batteries (Article)**

Tingting Liu, Han Wu, Hao Wang, Yiran Jiao, Xiaofan Du, Jinzhi Wang, Guangying Fu, Yaojian Zhang, Jingwen Zhao & Guanglei Cui

Nano-Micro Lett. 16, 144 (2024). <https://doi.org/10.1007/s40820-024-01340-5>

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. **Progress on Transition Metal Ions Dissolution Suppression Strategies in Prussian Blue Analogs for Aqueous Sodium-/Potassium-Ion Batteries (Review)**

Wenli Shu, Junxian Li, Guangwan Zhang, Jiashen Meng, Xuanpeng Wang & Liqiang Mai

Nano-Micro Lett. 16, 128 (2024). <https://doi.org/10.1007/s40820-024-01355-y>

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

Nano-Micro Lett. 16, 82 (2024). <https://doi.org/10.1007/s40820-023-01305-0>

1. **Asymmetric Electrolytes Design for Aqueous Multivalent Metal Ion Batteries (Review)**

Xiaochen Yang, Xinyu Wang, Yue Xiang, Longtao Ma & Wei Huang

Nano-Micro Lett. 16, 51 (2024). <https://doi.org/10.1007/s40820-023-01256-6>

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

Nano-Micro Lett. 15, 237 (2023). <https://doi.org/10.1007/s40820-023-01206-2>

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

Nano-Micro Lett. 15, 219 (2023). <https://doi.org/10.1007/s40820-023-01194-3>

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

Nano-Micro Lett. 15, 209 (2023). <https://doi.org/10.1007/s40820-023-01174-7>

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

Nano-Micro Lett. 15, 208 (2023). <https://doi.org/10.1007/s40820-023-01177-4>

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

Nano-Micro Lett. 15, 205 (2023). <https://doi.org/10.1007/s40820-023-01171-w>

1. **Air-Stable Binary Hydrated Eutectic Electrolytes with Unique Solvation Structure for Rechargeable Aluminum-Ion Batteries (Article)**

Pengyu Meng, Jian Huang, Zhaohui Yang, Min Jiang, Yibo Wang, Wei Zhang, Jiao Zhang, Baode Sun & Chaopeng Fu

Nano-Micro Lett. 15, 188 (2023). <https://doi.org/10.1007/s40820-023-01160-z>

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

Nano-Micro Lett. 15, 126 (2023). [https://doi.org/10.1007/s40820-023-01093-7](%20https:/doi.org/10.1007/s40820-023-01093-7)

1. **Enhancing Hydrophilicity of Thick Electrodes for High Energy Density Aqueous Batteries (Article)**

Jungeun Lee, Hyeonsoo Lee, Cheol Bak, Youngsun Hong, Daeha Joung, Jeong Beom Ko, Yong Min Lee & Chanhoon Kim

 Nano-Micro Lett. 15, 97 (2023). <https://doi.org/10.1007/s40820-023-01072-y>

1. **Electrochromic-Induced Rechargeable Aqueous Batteries: An Integrated Multifunctional System for Cross-Domain Applications (Review)**

Qi Zhao, Zhenghui Pan, Binbin Liu, Changyuan Bao, Ximeng Liu, Jianguo Sun, Shaorong Xie, Qing Wang, John Wang & Yanfeng Gao

Nano-Micro Lett. 15, 87 (2023). [https://doi.org/10.1007/s40820-023-01056-y](%20https:/doi.org/10.1007/s40820-023-01056-y)

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

Nano-Micro Lett. 15, 81 (2023). <https://doi.org/110.1007/s40820-023-01050-4>

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

Nano-Micro Lett. 15, 32 (2023). [https://doi.org/10.1007/s40820-022-01004-2](%20https:/doi.org/10.1007/s40820-022-01004-2)

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

Nano-Micro Lett. 14, 154 (2022). <https://doi.org/10.1007/s40820-022-00907-4>

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

Nano-Micro Lett. 14, 98 (2022). <https://doi.org/10.1007/s40820-022-00836-2>