

梁国进代表性论文:

1. **Guojin Liang**, Bochun Liang, Ao Chen, Jiaxiong Zhu, Qing Li, Zhaodong Huang, Xinliang Li, Ying Wang*, Xiaoqi Wang, Bo Xiong, Xu Jin, Shengchi Bai, Jun Fan* & Chunyi Zhi*. Development of rechargeable high-energy hybrid zinc-iodine aqueous batteries exploiting reversible chlorine-based redox reaction, *Nature Communications* **2023** *14*, 1856.
2. **Guojin Liang**, Zijie Tang, Bing Han, Jiaxiong Zhu, Ao Chen, Qing Li, Ze Chen, Zhaodong Huang, Xinliang Li, Qi Yang, Chunyi Zhi, Regulating Inorganic and Organic Components to Build Amorphous-ZnFx Enriched Solid-Electrolyte Interphase for Highly Reversible Zn Metal Chemistry *Advanced Materials* **2023**, *35*, 2210051.
3. Yudong Wu, Ningning He, **Guojin Liang***, Chaofeng Zhang, Changhao Liang, Derek Ho, Mingzai Wu*, Haibo Hu* Thick-Network Electrode: Enabling Dual Working Voltage Plateaus of Zn-ion Micro-Battery with Ultrahigh Areal Capacity *Advanced Functional Materials* 2301734.
4. **Guojin Liang**, Xinliang Li, Yanbo Wang, Shuo Yang, Zhaodong Huang, Qi Yang, Donghong Wang, Binbin Dong, Minshen Zhu, and Chunyi Zhi. Building durable aqueous K-ion capacitors based on Mxene family, *Nano Research Energy* 2022, 1: e9120002.
5. **Guojin Liang**, Jiaxiong Zhu, Boxun Yan, Qing Li, Ao Chen, Ze Chen, Xiaoqi Wang, Bo Xiong, Jun Fan, Jin Xu and Chunyi Zhi* Gradient fluorinated alloy coating to enable highly reversible Zn-metal anode chemistry, *Energy Environ. Sci.*, **2022**, *15*, 1086–1096.
6. **Guojin Liang**, Zhongdong Gan, Xiaoqi Wang, Xu Jin, Bo Xiong, Xiankun Zhang, Shimou Chen, Yanlei Wang*, Hongyan He*, and **Chunyi Zhi***. Reconstructing vanadium oxide with anisotropic pathways for durable and fast aqueous K-ion battery, *ACS Nano*, *11*, 17717 (2021).
7. **Guojin Liang**, Jiaxiong Zhu, Ao Chen, Qi Yang, **Chunyi Zhi*** Adhesive and Cohesive Force Matters in Deformable Batteries, *npj Flexible Electronics*, *5*, 27 (2021). (IF=12.7).
8. **Guojin Liang**, Funian Mo, Xiulei Ji*, **Chunyi Zhi*** Non-metallic charge carriers for aqueous batteries, *Nature Reviews Materials*, *6*, 109–123 (2021) .
9. **Guojin Liang**, **Chunyi Zhi*** A reversible Zn-metal battery, *Nature Nanotechnology* *16*, 854–855 (2021).
10. **Guojin Liang**, Yanlei Wang, Zhaodong Huang, Funian Mo, Xinliang Li, Qi Yang, Donghong Wang, Hongfei Li, Shimou Chen*, **Chunyi Zhi*** Initiating hexagonal MoO₃ for superb-stable and fast NH₄⁺ storage based on hydrogen bonds chemistry, *Advanced Materials* **2020**, 1907802.
11. **Guojin Liang**, Funian Mo, Donghong Wang, Xinliang Li, Zhaodong Huang, Hongfei Li, **Chunyi Zhi*** Commencing mild Ag-Zn batteries with long-term stability and ultra-flat voltage platform *Energy Storage Materials*, **2020**, *25*, 86.

12. **Guojin Liang**, Funian Mo, Qi Yang, Zhaodong Huang, Xinliang Li, Donghong Wang, Zhouxin Liu, Hongfei Li, Qiang Zhang, **Chunyi Zhi*** Commencing an acidic battery based on a copper anode with ultra-fast proton regulated kinetics and superior dendrite-free property *Advanced Materials*, **2019**, *31*, 1905873.
13. **Guojin Liang**, Funian Mo, Hongfei Li, Zijie Tang, Zhuoxin Liu, Donghong Wang, Qi Yang, Longtao Ma, **Chunyi Zhi***A Universal Principle to Design Reversible Aqueous Batteries Based on Deposition–Dissolution Mechanism *Advanced Energy Materials*, **2019**, *9*, 1901838.
14. Funian Mo[#], **Guojin Liang**[#], Qiangqiang Meng, Zhuoxin Liu, Hongfei Li, Jun Fan*, **Chunyi Zhi*** A flexible rechargeable aqueous zinc manganese-dioxide battery working at -20 °C *Energy Environ. Sci.*, **2019**, *12*, 706.
15. Funian Mo[#], **Guojin Liang**[#], Zhaodong Huang, Hongfei Li, Donghong Wang, and **Chunyi Zhi*** An Overview of Fiber-Shaped Batteries with a Focus on Multifunctionality, Scalability, and Technical Difficulties *Advanced Materials*, **2019**, 1902151.