



[Fig. 1 Electrochemical performances of the modified Cu current collectors]

{References}

- [1] Kim, Junghwan, et al. "Homogeneous Li Deposition guided by Ultra-thin Lithiophilic Layer for Highly Stable Anode-free Batteries." *Energy Storage Materials* (2023): 102899.
- [2] Cheng, Xin-Bing, et al. "Toward safe lithium metal anode in rechargeable batteries: a review." *Chemical reviews* 117.15 (2017): 10403-10473
- [3] Molaiyan, Palanivel, et al. "Optimizing Current Collector Interfaces for Efficient "Anode-Free" Lithium Metal Batteries." *Advanced Functional Materials* 34.6 (2024): 2311301.