

Supporting information

**Constructing heterostructured FeS₂/CuS nanospheres as high rate performance
lithium ion battery anodes**

Xiaoxia Xu, Lingjie Li, Huiqing Chen, Jing Liu, XiaoSong Guo, Zhonghua Zhang,

Changming Mao**, and Guicun Li*

College of Materials Science and Engineering, Qingdao University of Science and
Technology, Qingdao 266042, China.

E-mail: mcm@qust.edu.cn and guicunli@qust.edu.cn

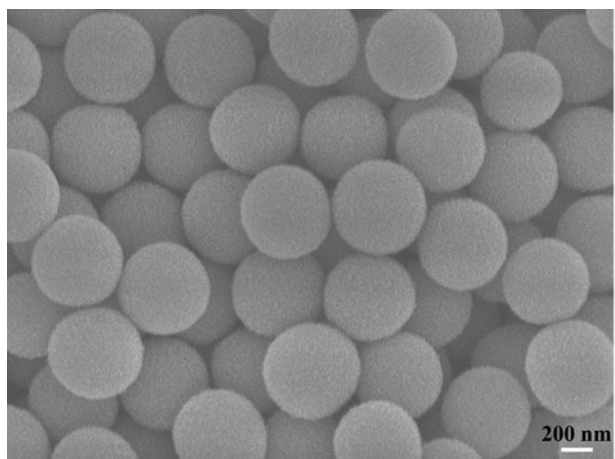


Fig. S1 SEM images of the Gly-Fe.

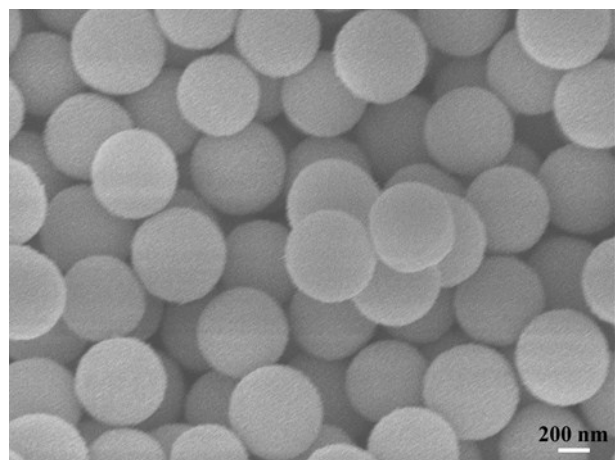


Fig. S2 SEM images of the Fe_2O_3 .

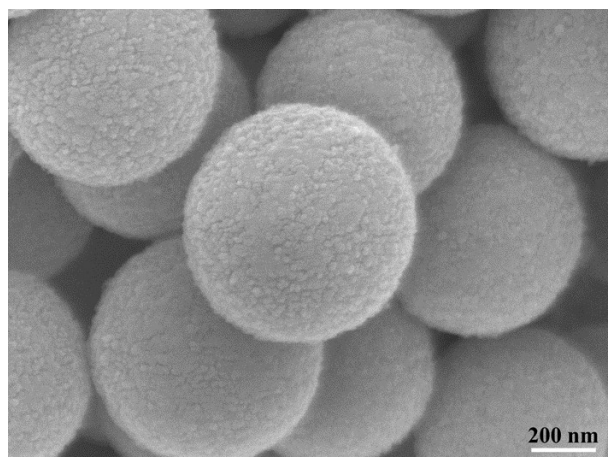


Fig. S3 SEM images of the pristine FeS₂.

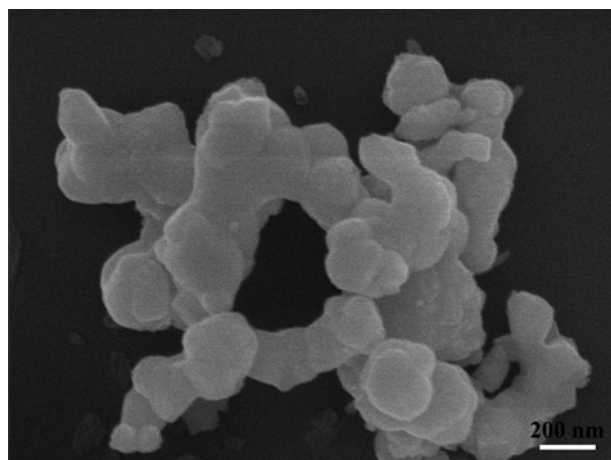


Fig. S4 SEM images of the pristine CuS.

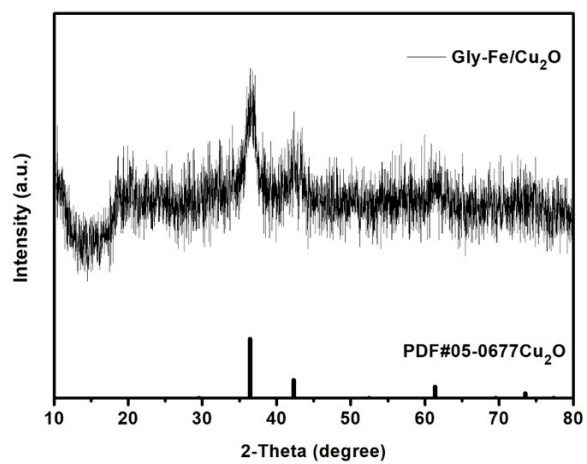


Fig. S5 XRD images of the Gly-Fe/Cu₂O.

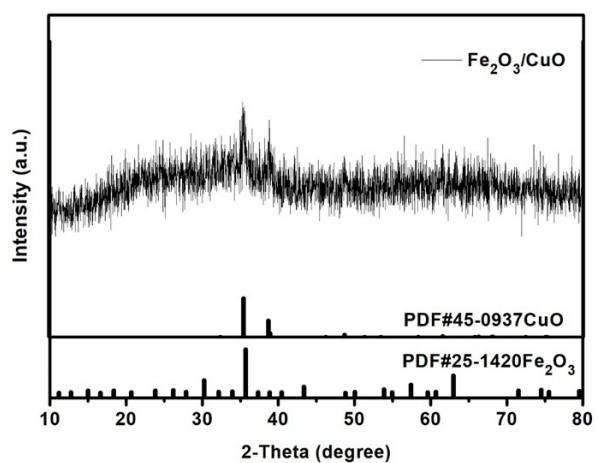


Fig. S6 XRD images of the Fe₂O₃/CuO.

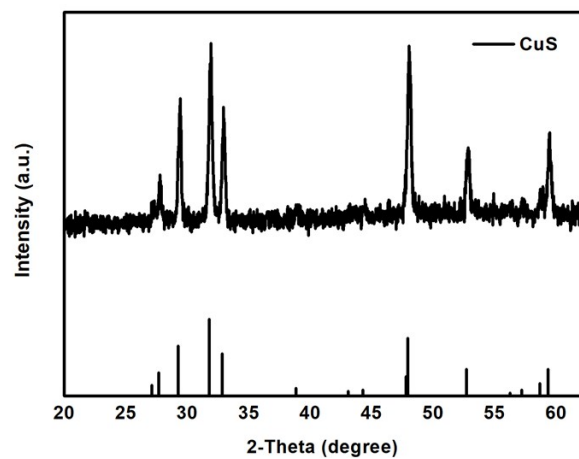


Fig. S7 XRD images of the pristine CuS.

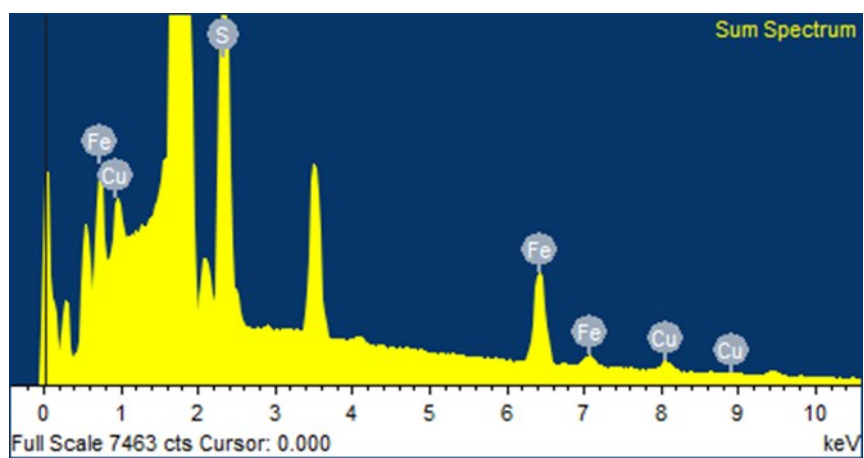


Fig. S8 The EDX spectrum of the HFCSMs.

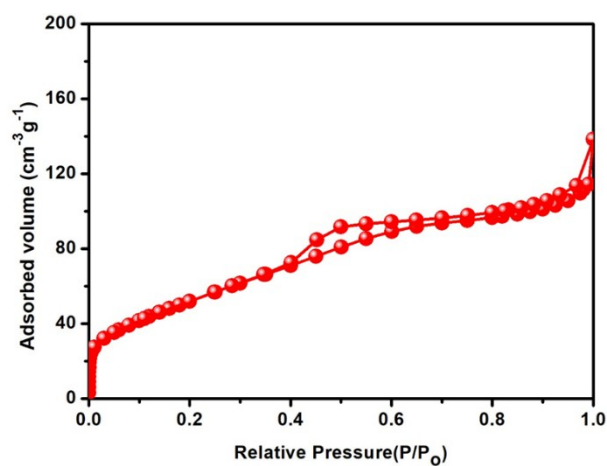


Fig. S9 N₂ adsorption-desorption isotherm loop of the Fe₂O₃/CuO.

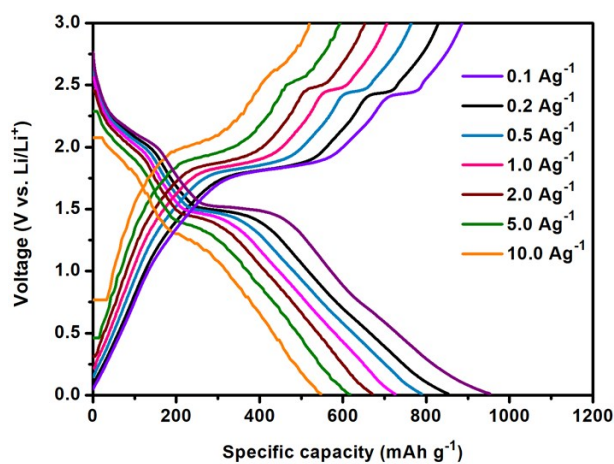


Fig. S10 Galvanostatic discharge-charge profiles of the HFCSs electrode at different current densities.

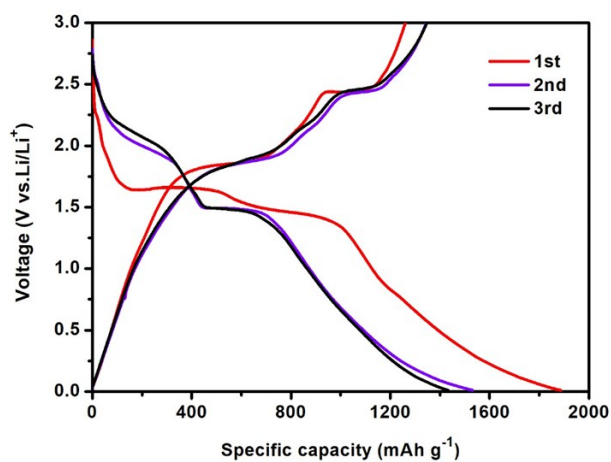


Fig. S11 Galvanostatic discharge-charge profiles of the pristine FeS₂ electrode at 0.1

A g⁻¹.

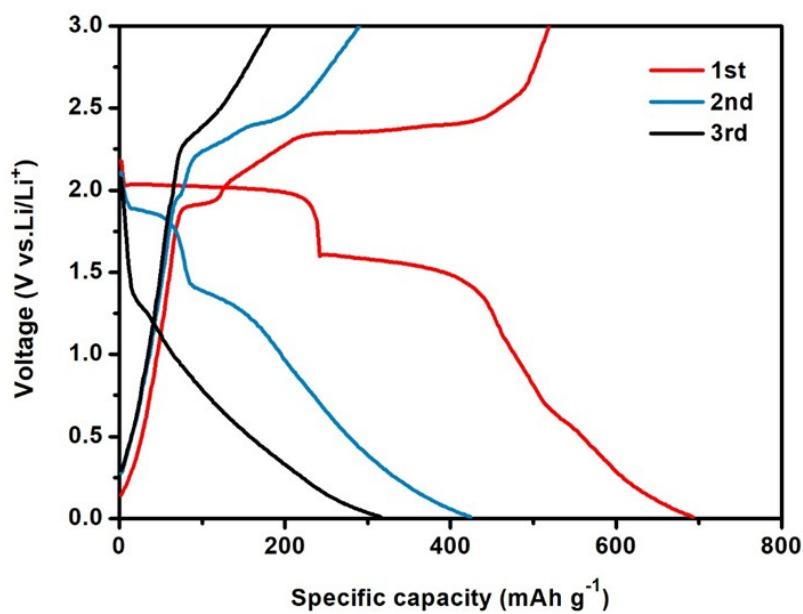


Fig. S12 Galvanostatic discharge-charge profiles of the pristine CuS electrode at 1.0

A g⁻¹.