

Supplementary Information

Self-assembled mesoporous CoO nanodisks as a long-life anode material for lithium-ion batteries

Yongming Sun, Xianluo Hu,* Wei Luo, and Yunhui Huang*

E-mail: huxl@mail.hust.edu.cn (or xlhu07@gmail.com); huangyh@mail.hust.edu.cn

State Key Laboratory of Material Processing and Die & Mould Technology, College of Materials Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, P. R. China

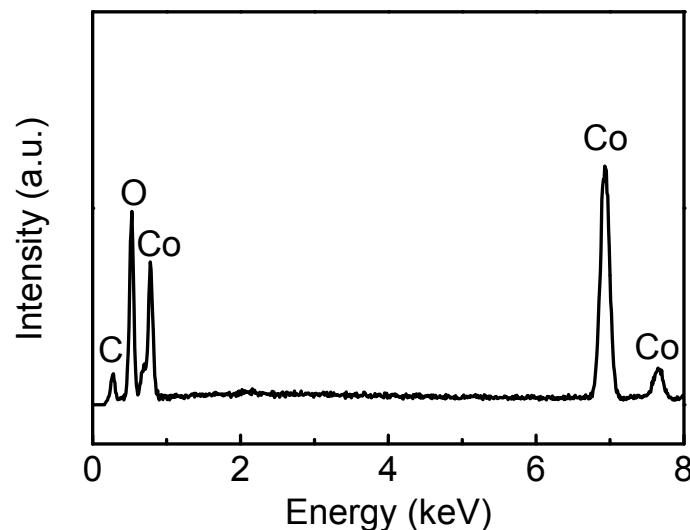


Fig. S1 EDX spectrum of the as-prepared CoO nanodisks. The signal of C is generated from the conducting tape on the sample holder.

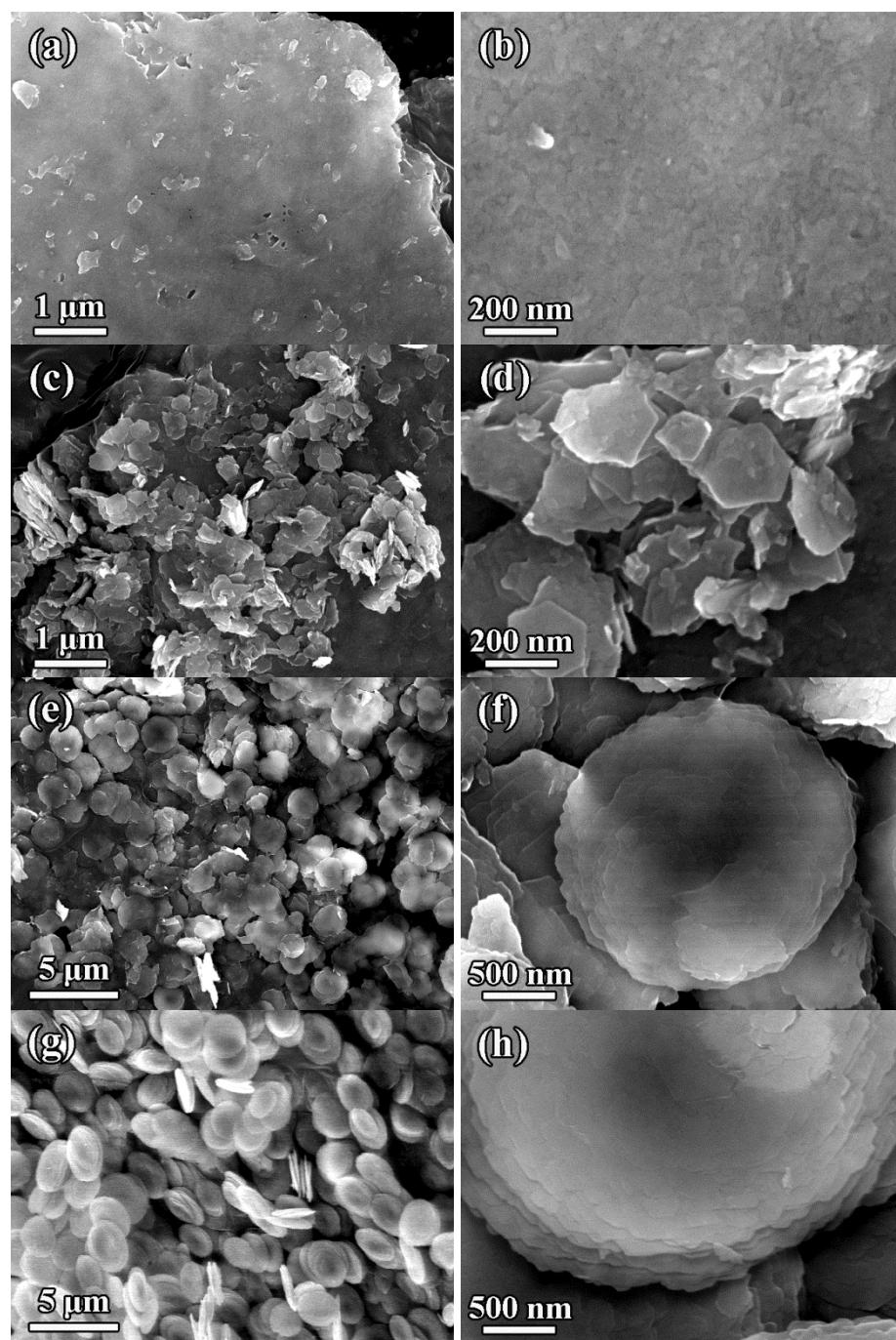


Fig. S2 Representative FESEM images of the products for different reaction time: (a, b) 5 min; (c, d) 20 min; (e, f) 2.5 h; (g,h) 7.5 h.

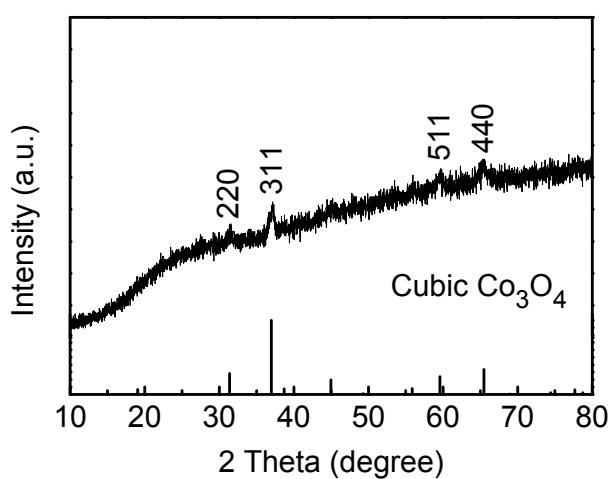


Fig. S3 XRD pattern for the resulting Co_3O_4 product synthesized by treating the $\text{Co}(\text{OH})_2$ intermediate at 350 °C for 2 h in air.

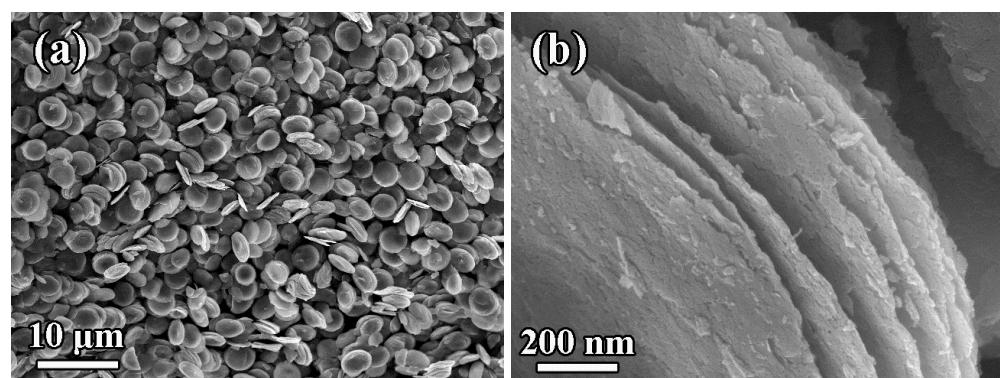


Fig. S4 SEM images for the Co_3O_4 product synthesized by treating the $\text{Co}(\text{OH})_2$ intermediate at 350 °C for 2 h in air.

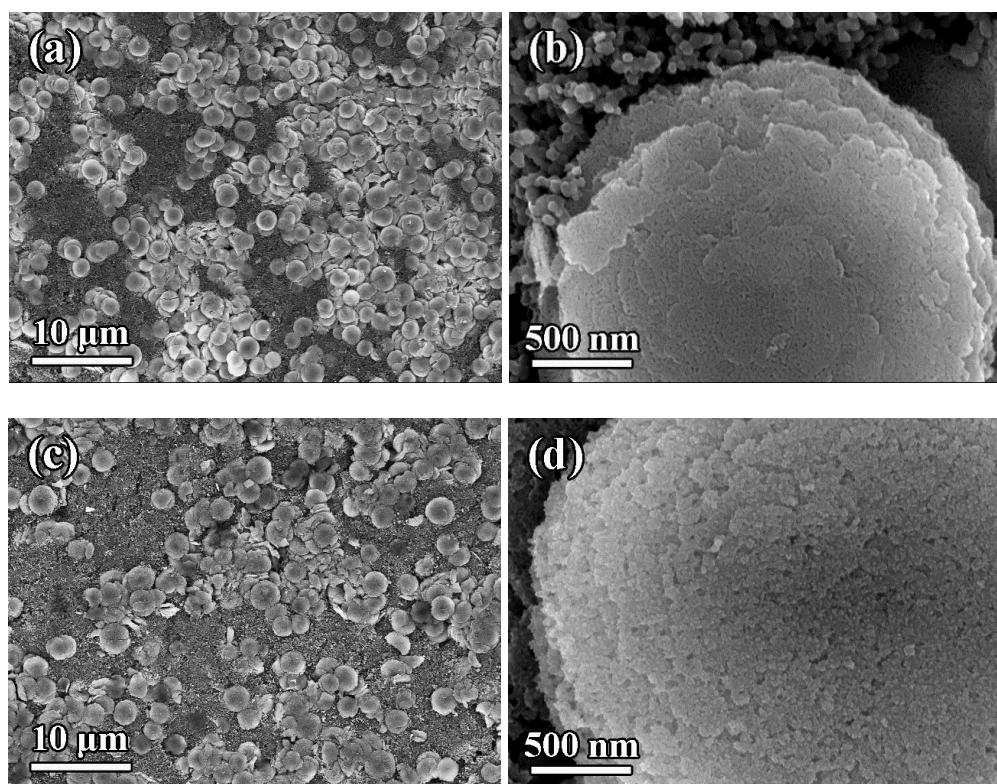


Fig. S5 SEM images of the CoO electrodes before (a,b) and after 200 discharge and charge cycles (c,d).