

Supplementary Information

Controlled construction of hierarchical Co_{1-x}S structures as high performance anode materials for lithium ion batteries

Shumin Liu^{1,2}, Jinxian Wang^{*1,2}, Jianwei Wang^{2,3}, Feifei Zhang^{2,3}, Fei Liang² and Limin Wang^{*2}

¹ School of Chemistry and Environmental Engineering, Changchun University of Science and Technology, Changchun 130025, China. E-mail: wjx87@sina.com

² State Key Laboratory of Rare Earth Resource Utilization, Changchun Institute of Applied Chemistry, CAS, Changchun 130022, China. Fax: +86-431-85262836; Tel: +86-431-85262447; E-mail: lmwang@ciac.ac.cn

³ University of Chinese Academy of Sciences, Beijing 100049, China

Corresponding author: Limin Wang, Email: lmwang@ciac.ac.cn, Tel: +86-431-85262447, Fax: +86-431-85262836

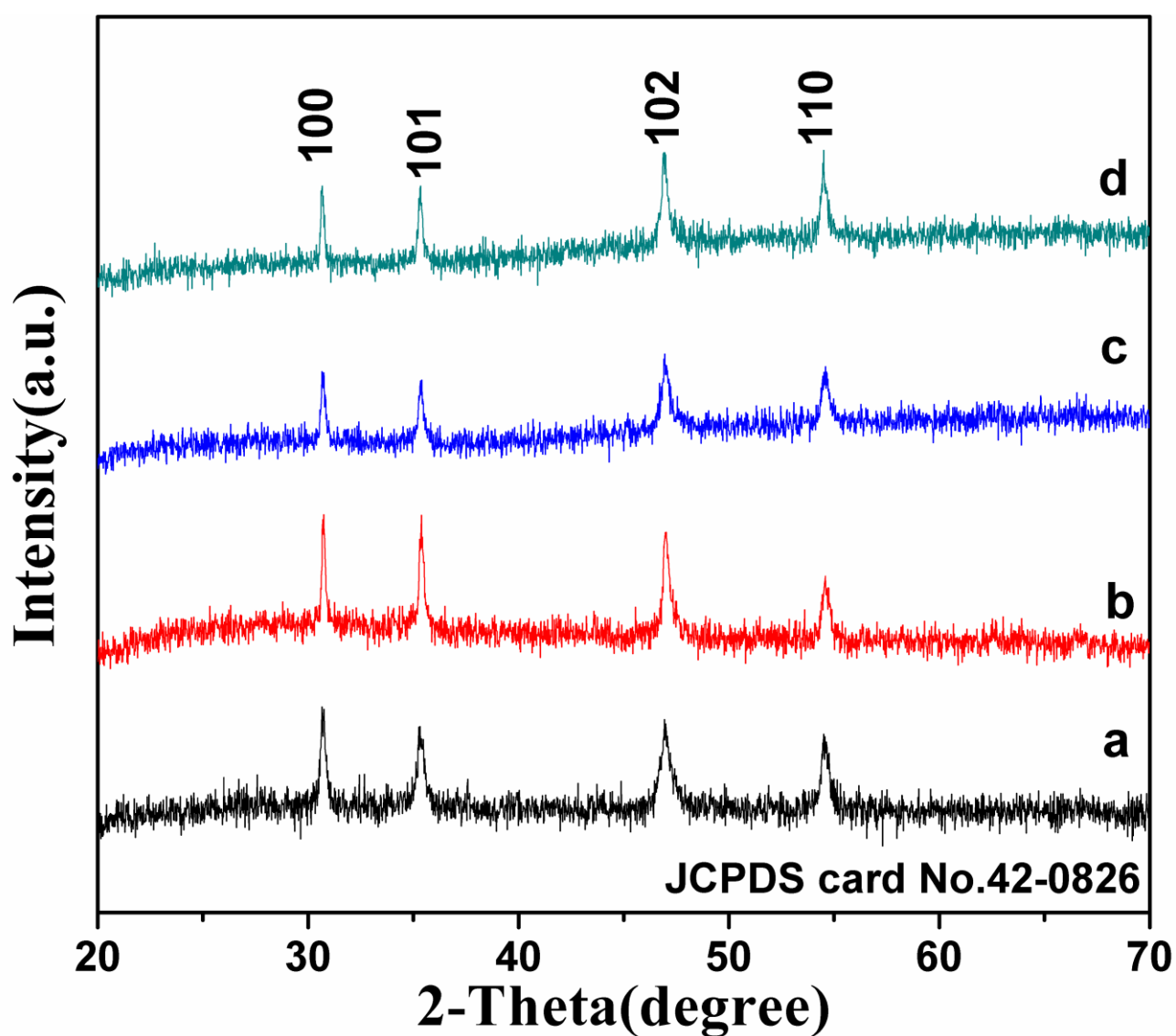


Fig.S1 XRD patterns of the Co_{1-x}S samples obtained at 200°C for 24 h with the different Na₃Cit content (a) 0 mmol, (b) 0.05 mmol, (c) 0.15 mmol and (d) 0.3 mmol.

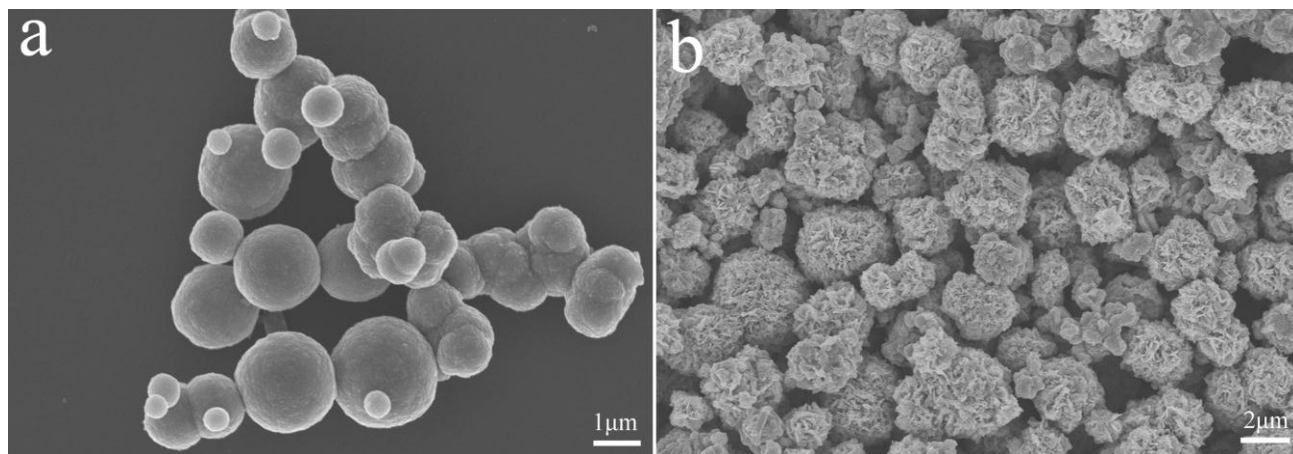


Fig. S2 SEM images of the as-prepared products formed in the presence of (a) CTAB, (b) PVP