Electronic Supplementary Information

3D Hierarchical Porous NiO Nanoflowers as an Advanced Anode Material with Remarkable Lithium Storage Performance

Yingping Pang,[a] Jian Zhang,[a] Dairong Chen,*[a,b] and Xiuling Jiao*[a,b]

[a]School of Chemistry and Chemical Engineering, Shandong University, Jinan 250100, P. R. China

[b]National Engineering Research Center for Colloidal Materials, Shandong University, Jinan 250100, P. R. China

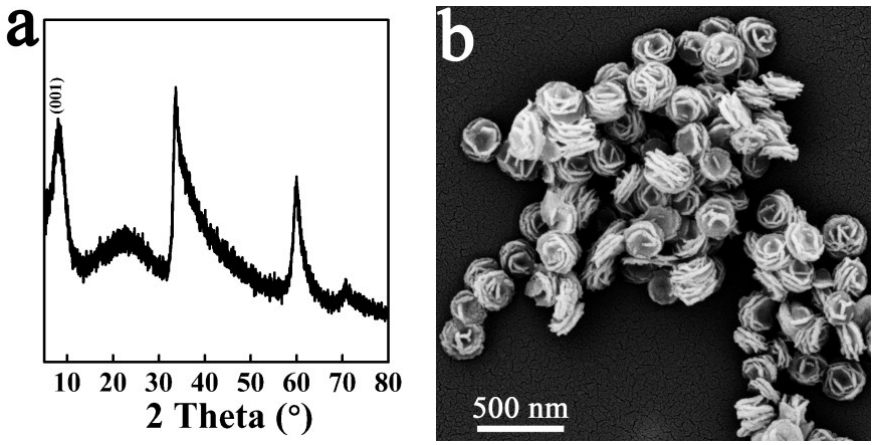

Fig. S1 XRD pattern and SEM images of nickel-precursor[1].

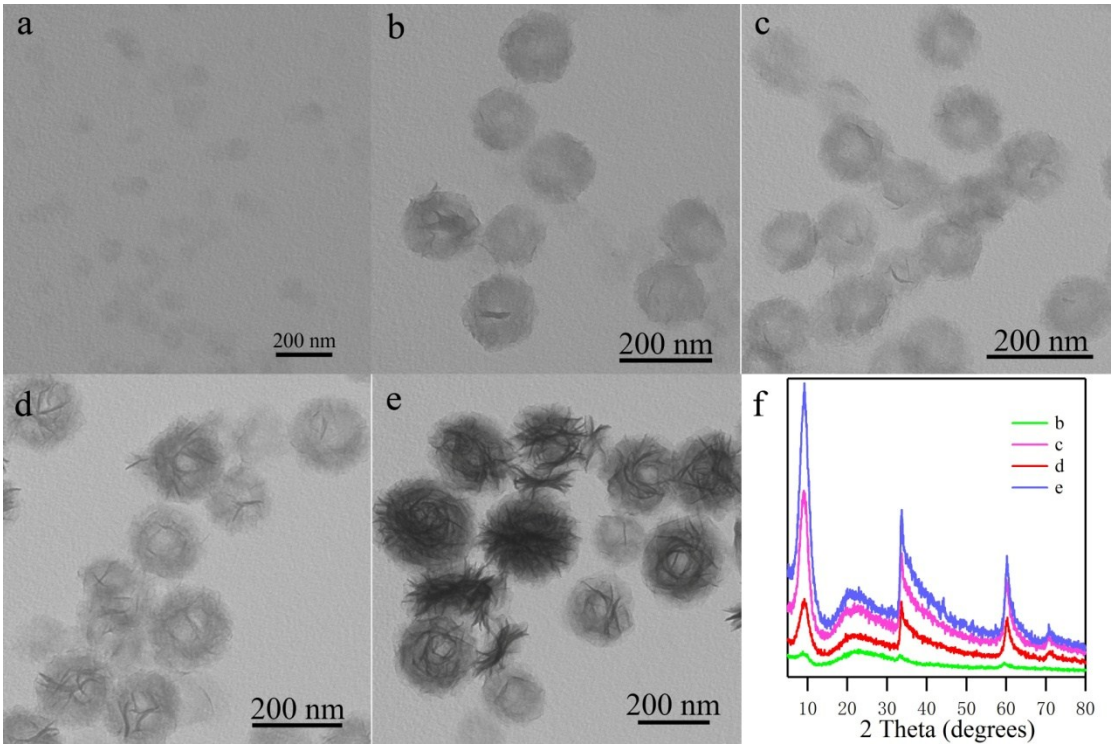

Fig. S2 TEM (a–e) images and XRD pattern (f) of the samples obtained for different solvothermal reaction times. (a) 50 min, (b) 60 min, (c) 180 min, (d) 240 min, (e) 300 min.

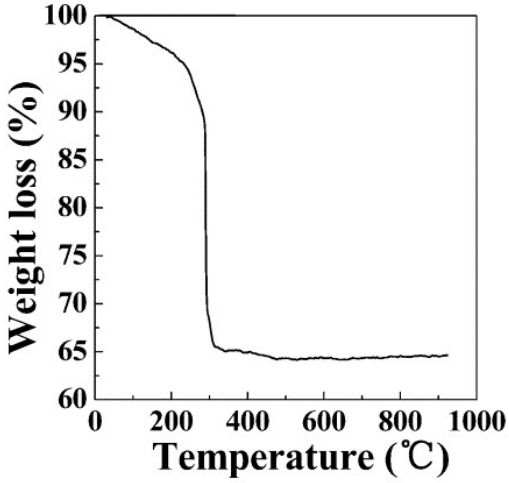

Fig. S3 TG-DSC curves of the as-prepared precursors.

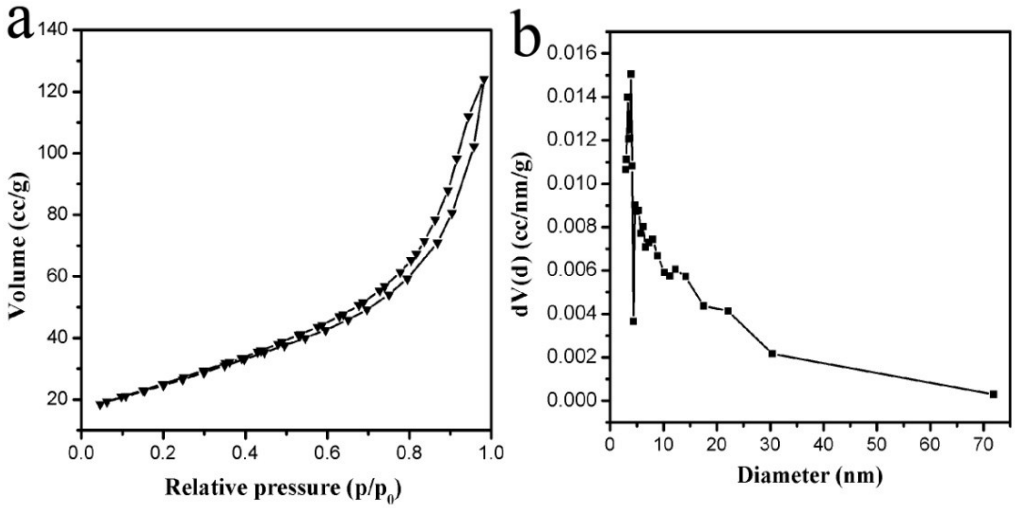

Fig. S4 (a) N_2 adsorption-desorption isotherm, and (b) pore-size distribution of the as-prepared NiO nanoflowers.

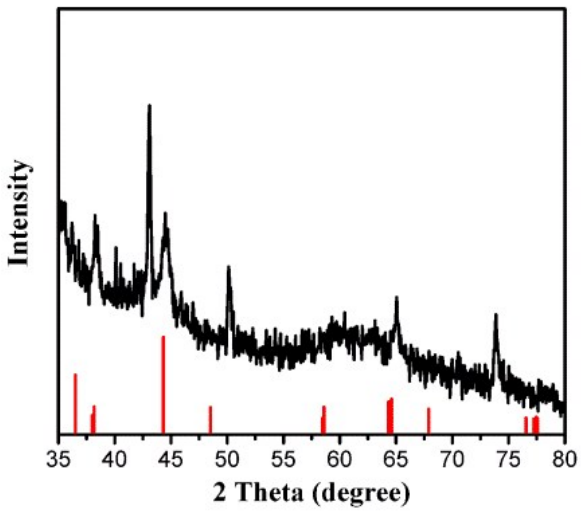

Fig. S5 XRD pattern of the product after being discharged/charged over 50 cycles at a current density of 100 mA g^{-1}.

References

1. Xu, L. Ding, Y. S. Chen, C. H. Zhao, L. C. Rimkus, R. Joesten and S. L. Suib, *Chem. Mater*. 2007, **20**, 308−316.