Electronic Supplementary Material (ESI) for CrystEngComm. This journal is © The Royal Society of Chemistry 2015

## **Electronic Supplementary Information**

## Template-free Synthesis of $Ni_7S_6$ Hollow Spheres with Mesoporous Shells for High Performance Supercapacitors

Zhongchun Lia, b, Jie Hana, Lei Fana and Rong Guoa, \*

<sup>a</sup> School of Chemistry and Chemical Engineering, Yangzhou University, Yangzhou,

225002, P. R. China

<sup>b</sup> School of Chemistry and Environment Engineering, Jiangsu University of

Technology, Changzhou, 213001, P. R. China

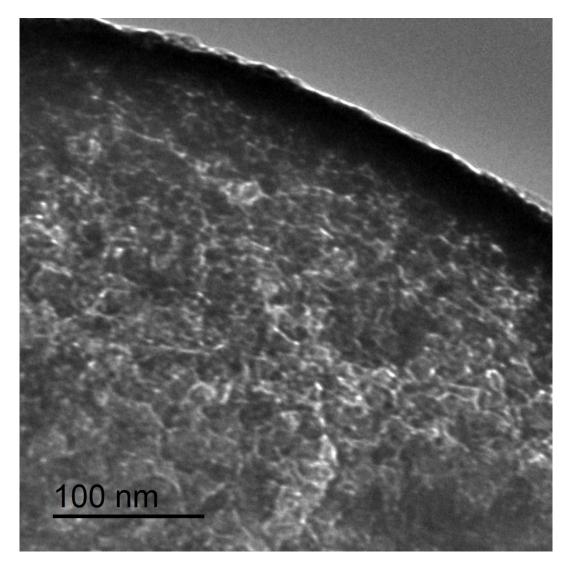


Fig. S1 TEM image of  $Ni_7S_6$  mesoporous shell.

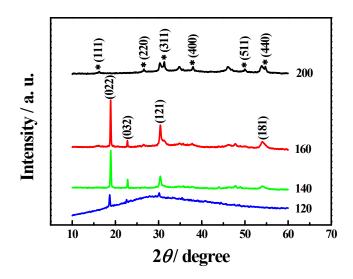


Fig. S2 XRD patterns of samples obtained at different temperature (°C).

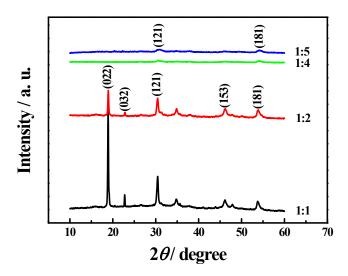
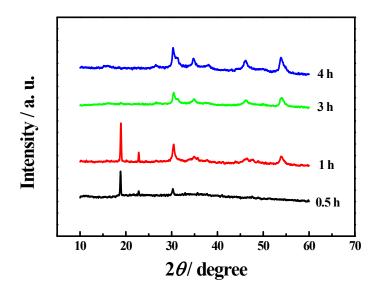


Fig. S3 XRD patterns of samples prepared at various molar ratio of NCH/STC.



**Fig. S4** XRD patterns samples obtained at different reaction time (h): (a) 0.5, (b) 1, (c) 3, and (d) 4.