Supplementary Information

One-pot Synthesis of Flowerlike Ni$_7$S$_6$ and its Application in Selective Hydrogenation of Chloronitrobenzene

Feng Cao, Ruixia Liu, Liang Zhou, Shuyan Song, Yongqian Lei, Weidong Shi, Fengyu Zhao, and Hongjie Zhang*

Supplementary information comprising: (1) SEM images of samples obtained using (a) ethylenediamine; (b) Triethanolmine (TEA) and (c) n-Butylamine. In these cases, samples were prepared at 180°C, H$_2$O/EA volume ratios =4:1, and a reaction time of 12 h. Fig. S1; (2) XRD patterns of the products: microspheres, nanoplates, urchins, Fig. S2-3; and (3) SEM images of the samples prepared under different Ni/S molar ratios: (a) 1:1; (b) 1:2; In all cases, samples were prepared at 180°C, and a reaction time of 12 h, Fig. S4;

Fig. S1  SEM images of samples obtained using (a) ethylenediamine; (b) Triethanolmine (TEA) and (c) n-Butylamine. In these cases, samples were prepared at 180°C, H$_2$O/EA volume ratios =4:1, and a reaction time of 12 h.
Fig. S2  XRD patterns of the products: (a) microspheres, and (b) nanoplates.
Fig. S3  XRD pattern of the urchin-like product.
Fig. S4  SEM images of the samples prepared under different Ni/S molar ratios: (a) 1:1; (b) 1:2; In all cases, samples were prepared at 180 °C, and a reaction time of 12 h.