Supplementary Information

One-pot Synthesis of Flowerlike Ni_7S_6 and its Application in Selective Hydrogenation of Chloronitrobenzene

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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_2O/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_2O/EA volume ratios =4:1, and a reaction time of 12 h.

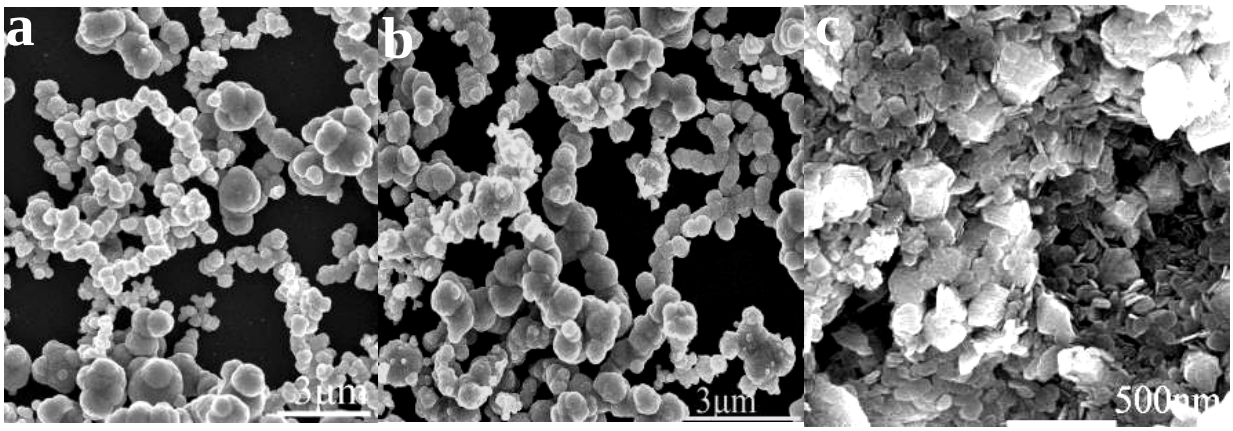

Fig. S2 XRD patterns of the products: (a) microspheres, and (b) nanoplates.

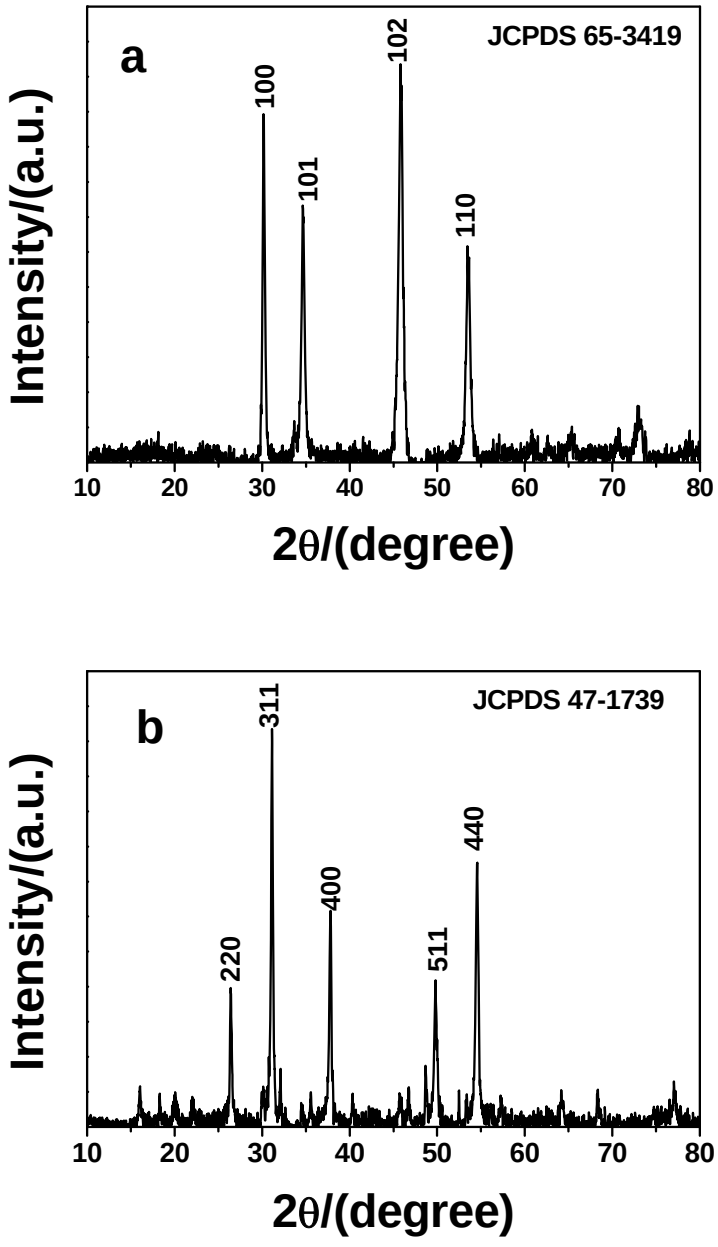

Fig. S3 XRD pattern of the urchin-like product.

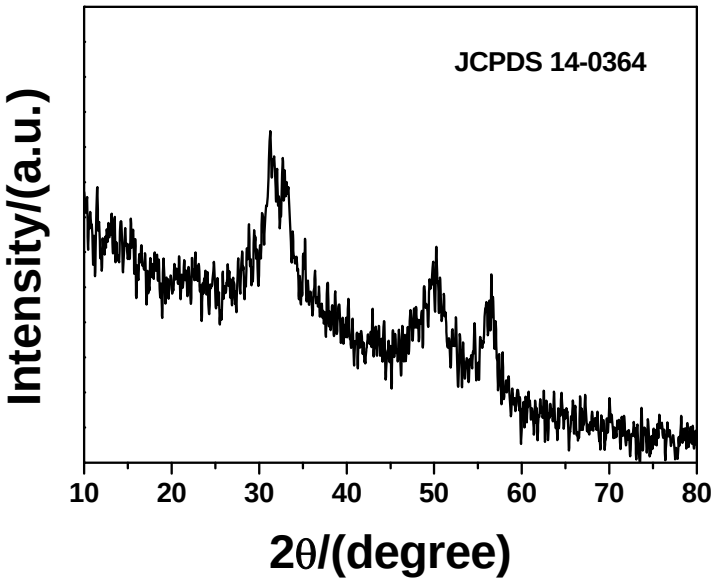

Fig. S4 SEM images of the samples prepared under different Ni/S molar ratios: (a) 1:1; (b) 1:2; In all cases, samples were prepared at 180 ^{o}C, and a reaction time of 12 h.