

Hollow Ni-Co-B Amorphous Alloy Nanospheres: Facile Fabrication via Vesicle-assisted Chemical Reduction and Their Enhanced Catalytic Performances

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Electronic Supplementary Information

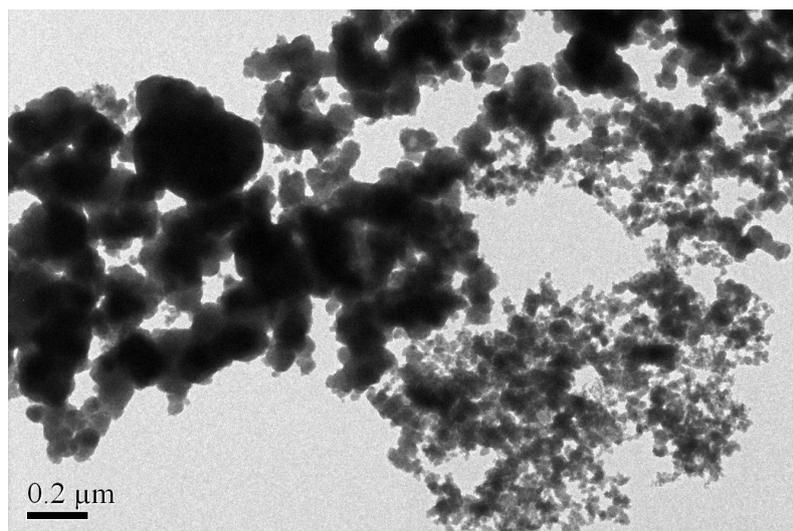


Fig. S1 TEM image of Ni-Co-B-S.

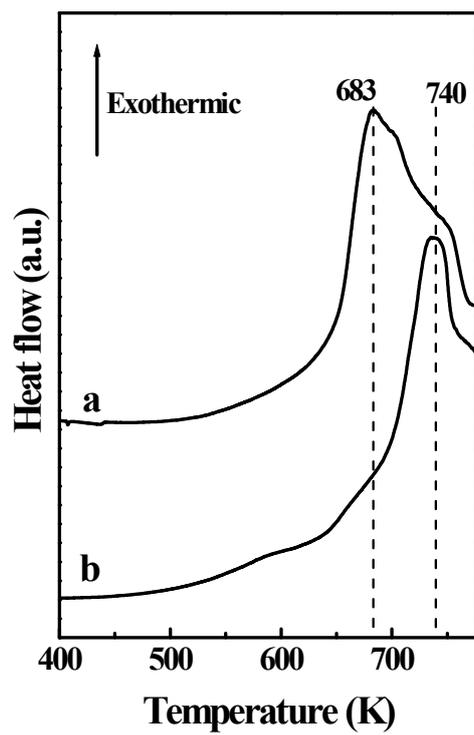


Fig. S2 DSC curves of (a) Ni-Co-B-S and (b) Ni-Co-B-H.

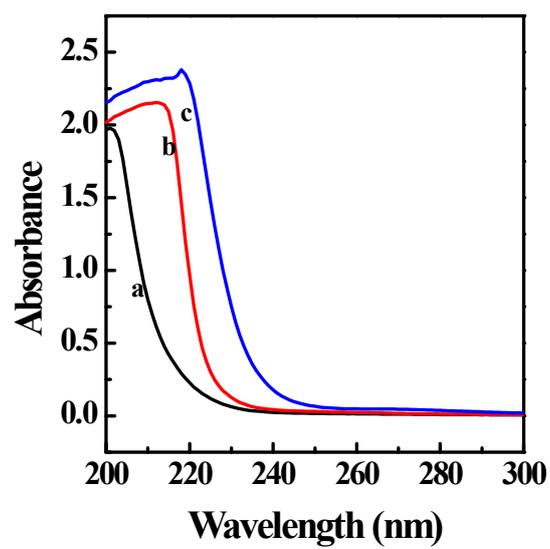


Fig. S3 UV/vis spectra of aqueous solutions of (a) $\text{NiCl}_2 + \text{CoCl}_2$, (b) $\text{NiCl}_2 + \text{CoCl}_2 + \text{KCl}$, and (c) $\text{NiCl}_2 + \text{CoCl}_2 + \text{KCl} + \text{Bu}_4\text{PBr}$.

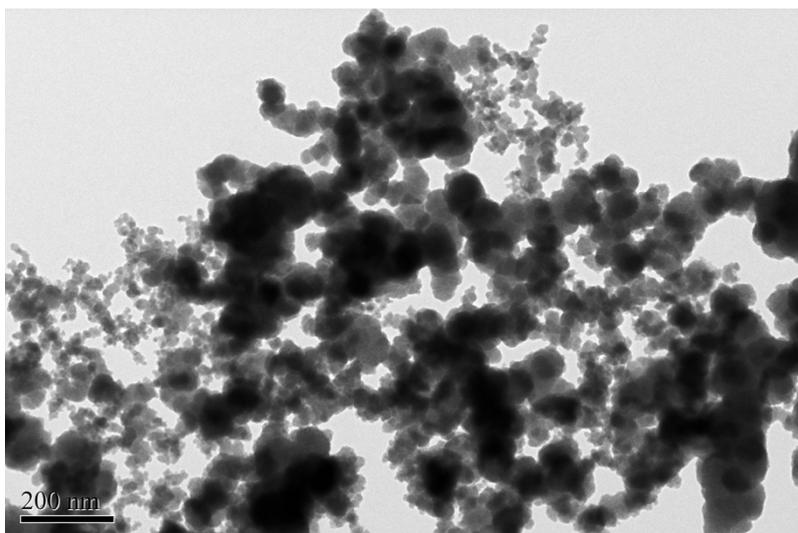


Fig. S4 TEM image of Ni-Co-B synthesized by the similar conditions used to synthesize Ni-Co-B-*H* but without Bu₄PBr.

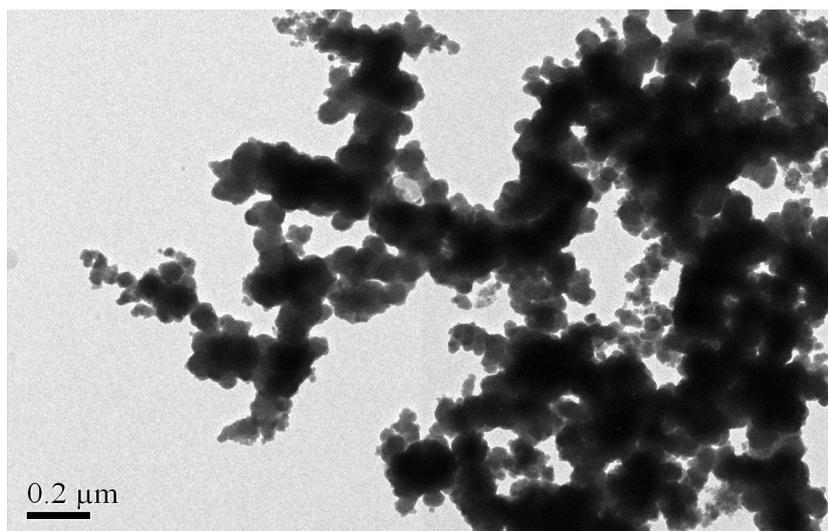


Fig. S5 TEM image of Ni-Co-B synthesized by the similar conditions used to synthesize Ni-Co-B-*H* but without KCl.

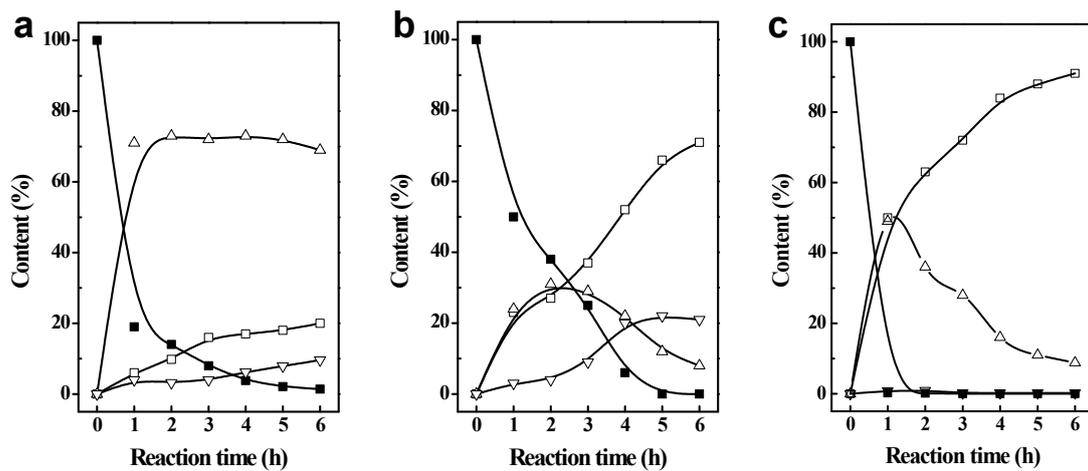


Fig. S6 Reaction profiles of EHEA hydrogenation over a) Ni-B, b) Co-B, and c) Ni-Co-B-S. (■) EHEA, (□) EHO, (Δ) EHA, and (▽) EHEO. Reaction conditions: catalyst (0.3 g), EHEA (4 mL), EtOH (45 mL), $T = 373$ K, $P_{H_2} = 1.0$ MPa, stirring rate = 800 rpm.

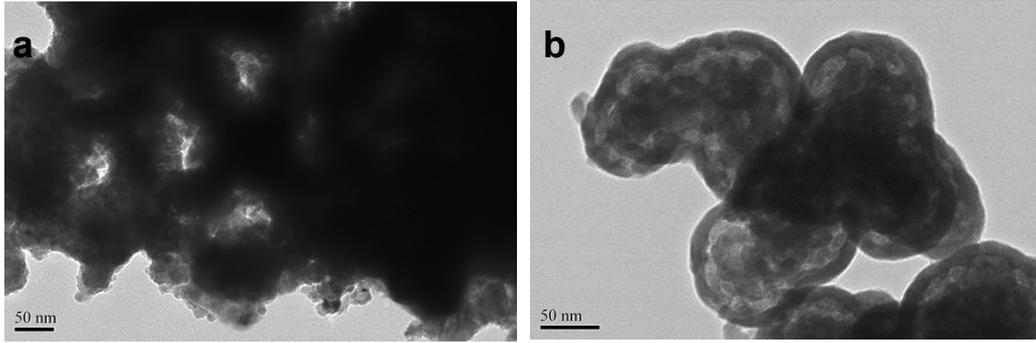


Fig. S7 TEM images of a) Ni-Co-B-S and b) Ni-Co-B-H after 5 and 7 consecutive runs, respectively.