

Supporting Information

Magnetic Ni and Ni/Pt hollow nanospheres and their catalytic activities for hydrolysis of ammonia borane

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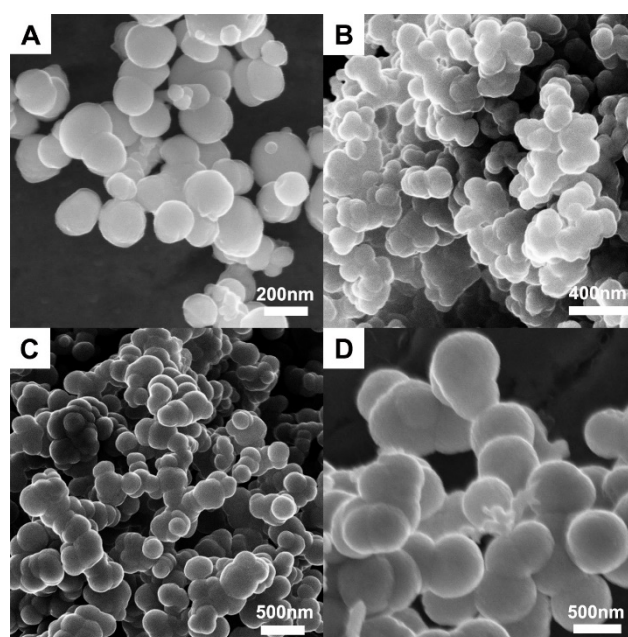


Figure S1. SEM images of the as-synthesized nickel hollow spheres: (A) ET/EN=1:9; (B) ET/EN=3:7; (C) ET/EN=4:6; (D) ET/EN=5:5.

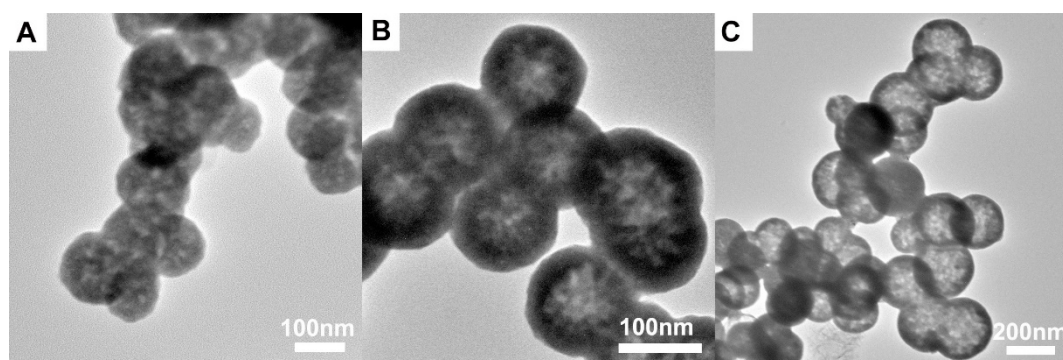


Figure S2. TEM images of as-synthesized nickel hollow spheres at different reaction stage: (A) incipient stage; (B) intermediate stage; (C) later stage.

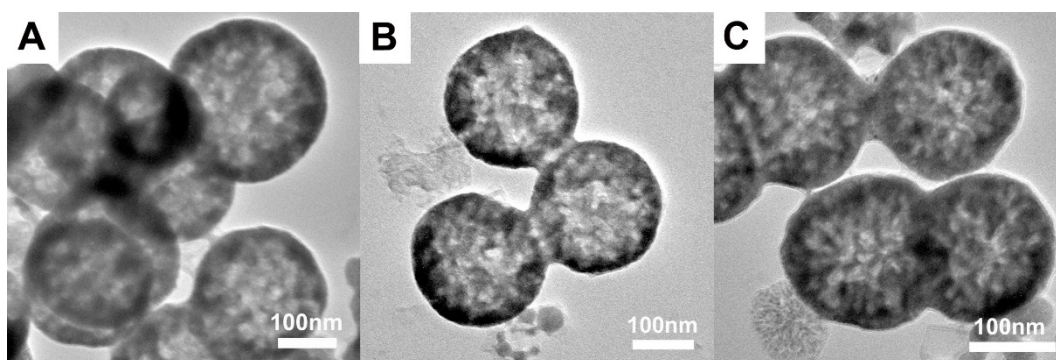


Figure S3. TEM images of as-synthesized Ni/Pt hollow spheres of different ratios: (A) Ni/Pt=95:5; (B) Ni/Pt=90:10; (C) Ni/Pt=95:15.

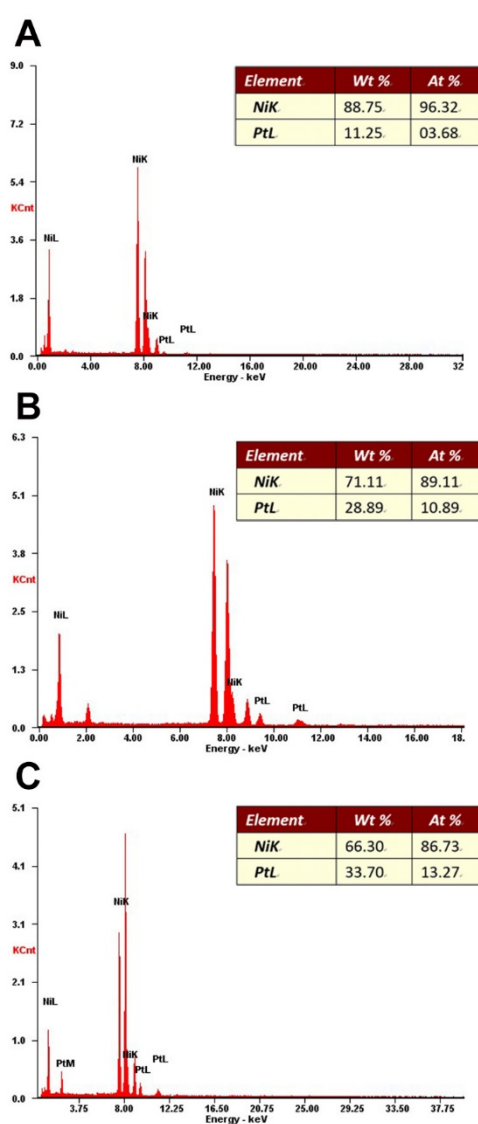


Figure S4. EDAX test of the as-synthesized Ni/Pt hollow spheres with different molar ratios: (A) Ni/Pt=95:5; (B) Ni/Pt=90:10; (C) Ni/Pt=85:15.

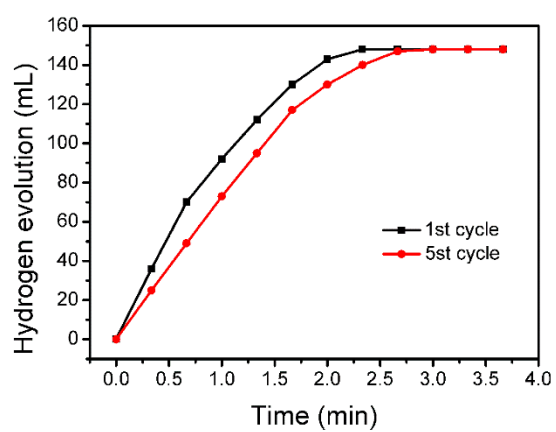


Figure S5. Reusability of the as-synthesized Ni/Pt hollow spheres.

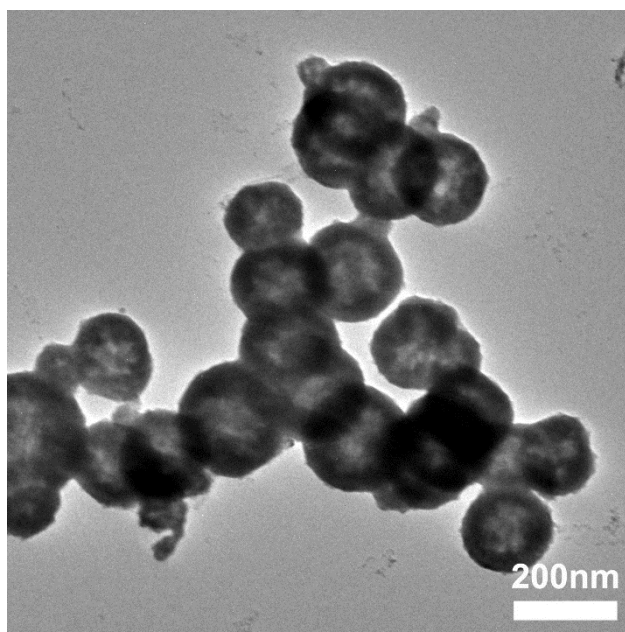


Figure S6. TEM image of as-synthesized Ni/Pt hollow bimetallic spheres after catalytic reaction.

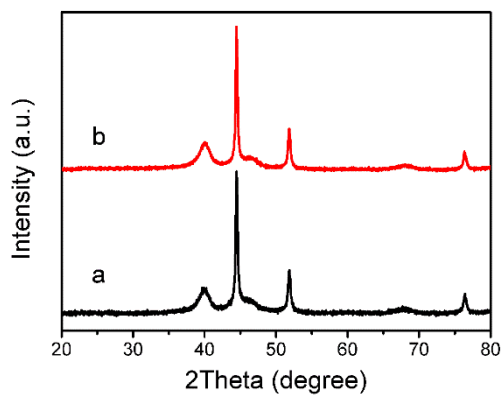


Figure S7. XRD patterns of the as-synthesized Ni/Pt hollow bimetallic nanospheres. a) before the catalytic reaction, b) after the catalytic reaction.