Supplementary Information

Acid-tolerant Intermetallic Cobalt-nickel Silicides as Noble Metal-like Catalysts for Selective Hydrogenation of Phthalic Anhydride to Phthalide

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Figure S1. Powder XRD patterns of Co$_x$Ni$_{1-x}$-MOFs-74.
Figure S2. SEM images of (a) Co-MOFs-74, (b) Co$_{0.75}$Ni$_{0.25}$-MOFs-74, and (c) Ni-MOFs-74.
Figure S3. TG-DTG curves of (a) Co-MOFs-74, (b) Co$_{0.75}$Ni$_{0.25}$-MOFs-74, and (c) Ni-MOFs-74.
Figure S4. XRD patterns of Co$_2$Ni$_{1-z}$@C samples.
Figure S5. (a) Nitrogen adsorption-desorption isotherms at 77 K and (b) corresponding pore size distribution curves of Co@C, Ni@C, and Co$_x$Ni$_{2-x}$Si@C.
Figure S6. GC-MS profile of the products for the hydrogenation of phthalic anhydride (reaction condition: 100 mg Ni₂Si@C catalyst, 180 °C, 4 MPa H₂, 2 h).