Ag-Ni Core-Shell Nanowires with Superior Electrocatalytic

Activity for Alkaline Hydrogen Evolution Reaction

Supporting Infromation



Fig. S1 TEM images of the (a) Ag NWs, (b) Ni NPs, (c) Ag NPs, (d) Ag–Ni NPs, (e) Ag₁Ni₁ NWs, (f) SEM image of the Ag₁Ni₁ NWs.



Fig. S2 XRD pattern of Ag–Ni NPs.



Fig. S3 XRD patterns of Ag-Ni NWs with various atom ratios.



Fig. S4 TEM images of Ag-Ni NWs with various atom ratios of Ag to Ni: (a, b) 4/1, (c, d)2/1, (e, f)1/1, (g, h)1/2.



Fig. S5 Comparison of the potential transient of the catalysts for the HER at -10mA cm⁻² in 0.1M KOH at 1600 rpm for 3 h.



Fig. S6 Comparison of the HER polarization curves for the Ag NWs, Ni NPs, Ag–Ni NPs, Ag₁Ni₁ NWs and commercial Pt–C (20%) in acid condition.