

Figure S1 TEM micrographs of the Pt-Rh synthesized nanowires.

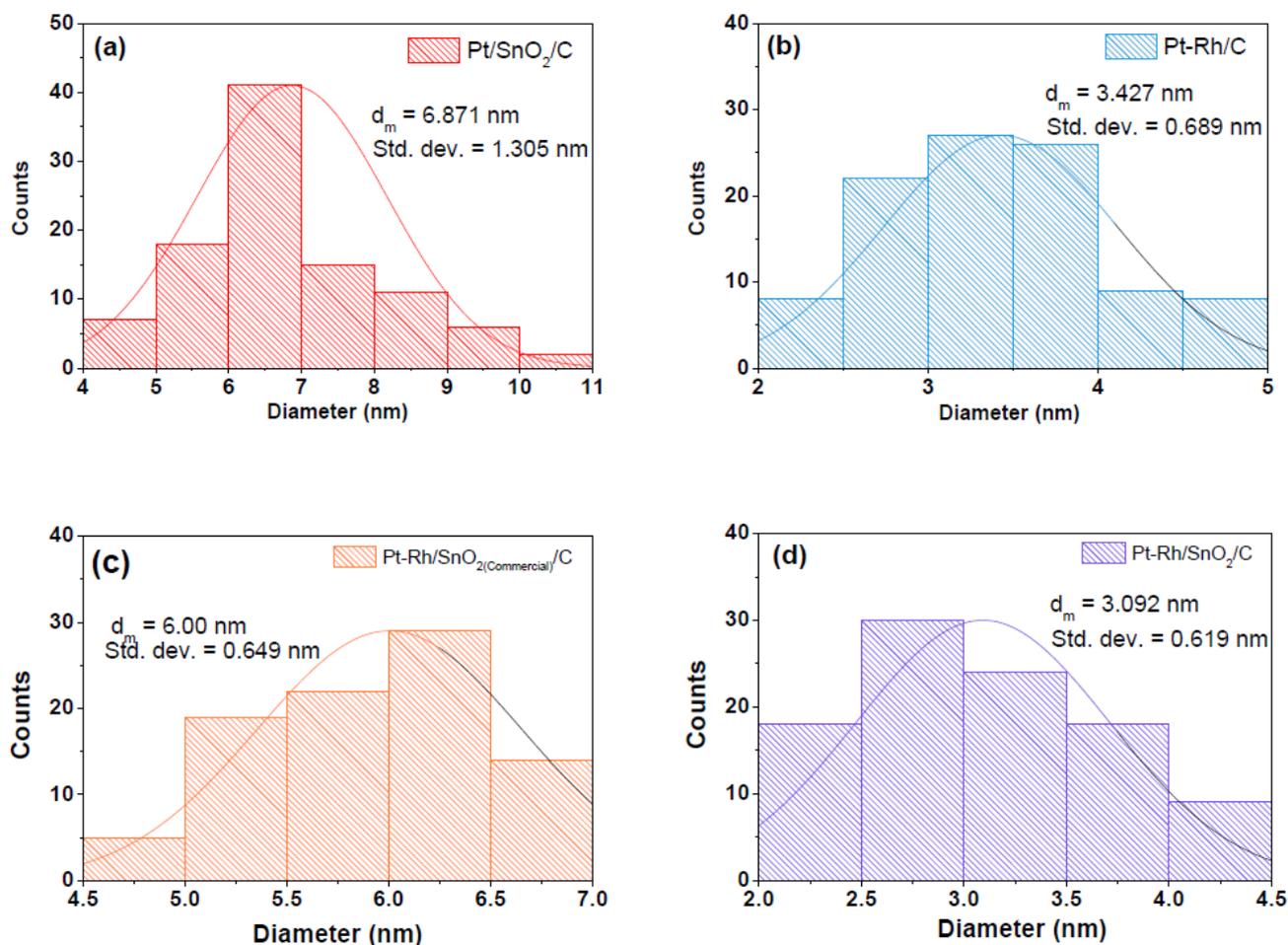


Figure S2 Histograms of the average particle size distribution for (a) Pt/SnO₂/C, (b) Pt-Rh/C, (c) Pt-Rh/SnO₂(Commercial)/C, and (d) Pt-Rh/SnO₂/C catalysts.

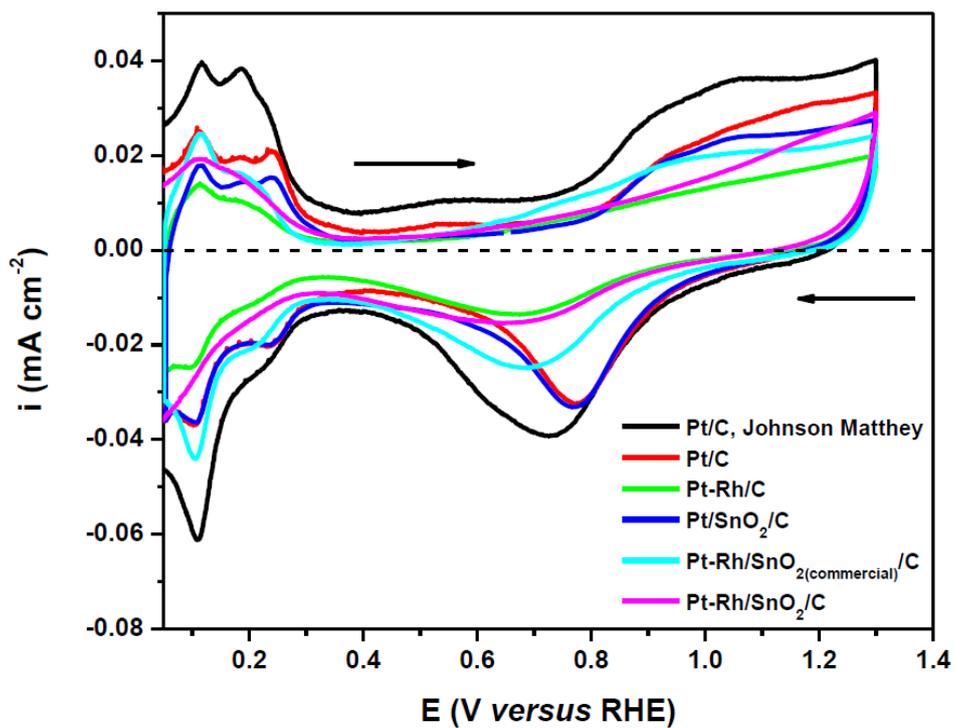


Figure S3 Cyclic voltammograms (second cycle) recorded in 0.5 mol L⁻¹ H₂SO₄ for the Pt/C Johnson Matthey, Pt/C, Pt/SnO₂/C, Pt-Rh/C, Pt-Rh/SnO₂(commercial)/C and Pt-Rh/SnO₂/C catalysts. $\nu = 20 \text{ mV s}^{-1}$ and $T = 25^\circ\text{C}$.

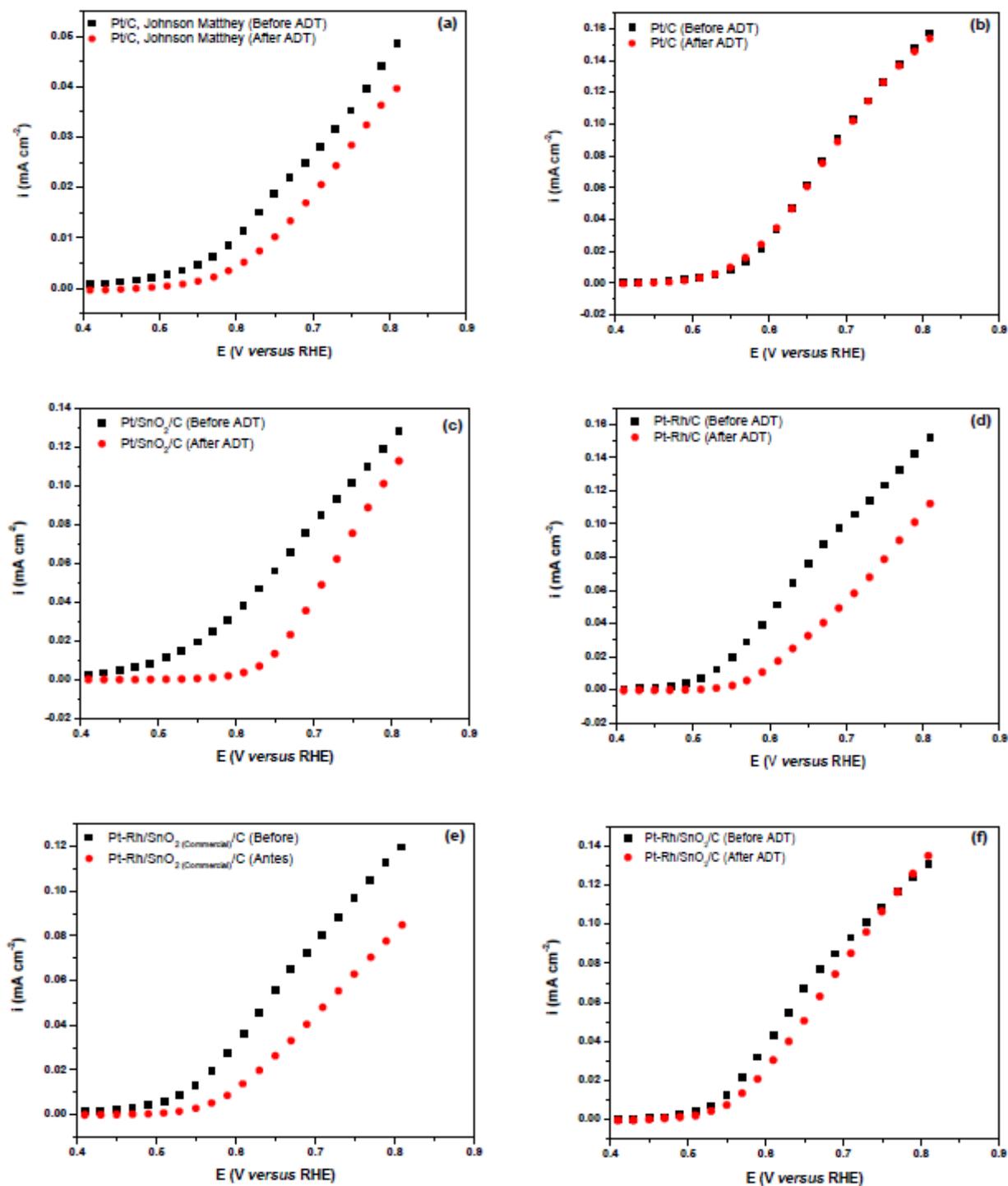


Figure S4 Comparison of the steady-state polarization curves voltammograms before (black) and after (red) the ADT for (a) Pt/C Johnson Matthey, (b) Pt/C, (c) Pt/SnO₂/C, (d) Pt-Rh/C, (e) Pt-Rh/SnO₂(Commercial)/C and (f) Pt-Rh/SnO₂/C catalysts. Steady-state polarization curves were measured in N₂-saturated 0.5 mol L⁻¹ H₂SO₄ electrolyte solution at 25 °C at 1 mV s⁻¹.