

Supplementary Material

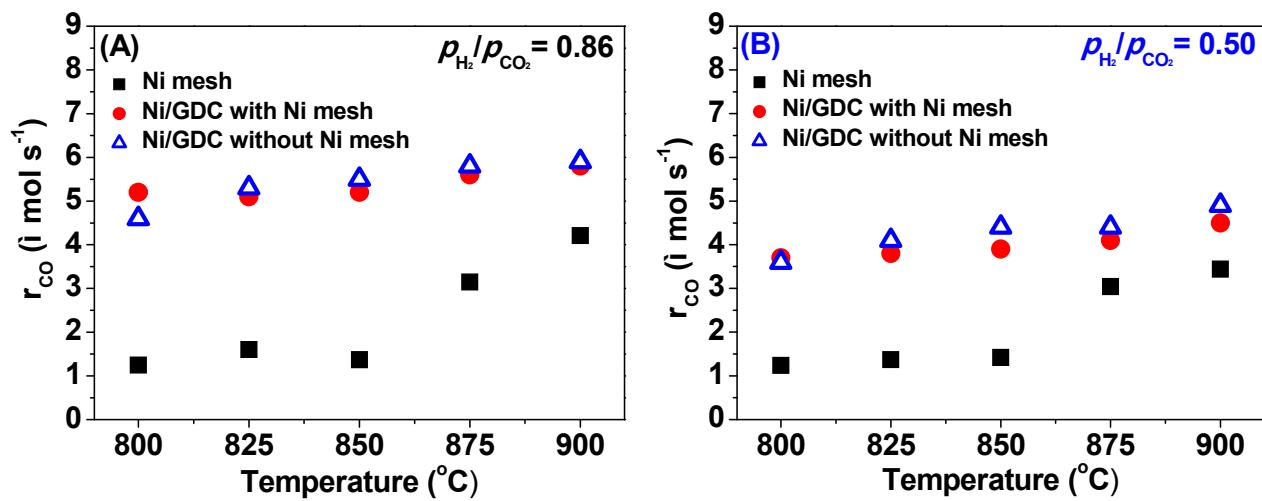


Figure S1. Kinetic study of the R.W.G.S. reaction on the nickel mesh (■), Ni/GDC with Ni mesh (●) and Ni/GDC without Ni mesh (△), in the range of 800-900 °C, under two different mixtures: (A) 24.5% H₂O - 24.5% CO₂ - 21% H₂ ($P_{H_2}/P_{CO_2} = 0.86$) and (B) 28% H₂O - 28% CO₂ - 14% H₂ ($P_{H_2}/P_{CO_2} = 0.50$). Dilution of He: 30 vol. % and $F_{total} = 140$ cm³/min (STP conditions: 0 °C, 1 atm) in all cases. The loading of Ni/GDC is 11 mg/cm².