

Supplementary Material

Ru/Ce/Ni Metal Foams as Structured Catalysts for the Methanation of CO₂

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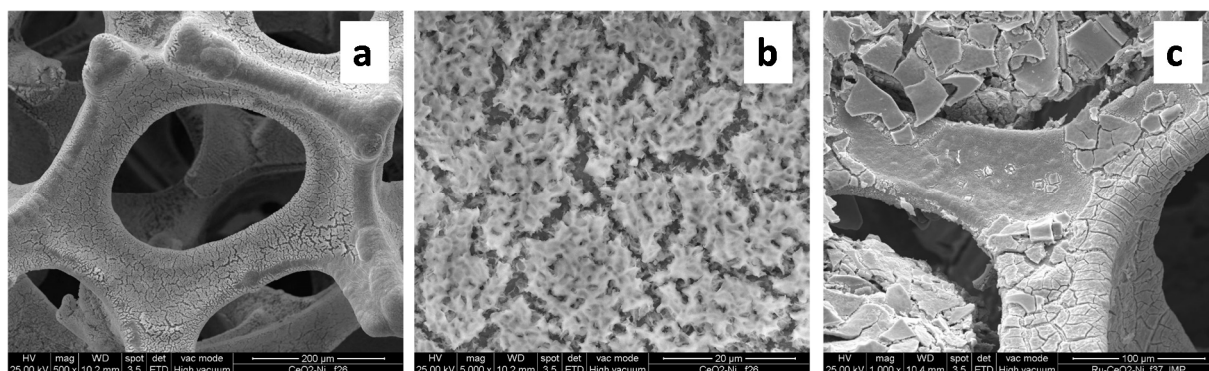


Figure S1. SEM images of Ce₃₆/Ni (a,b) and Ru/Ce₃₆/Ni (c). The latter image highlights the accumulation of CeO₂ scales detached from the Ni foam struts during thermal treatment and trapped within the foam cells.

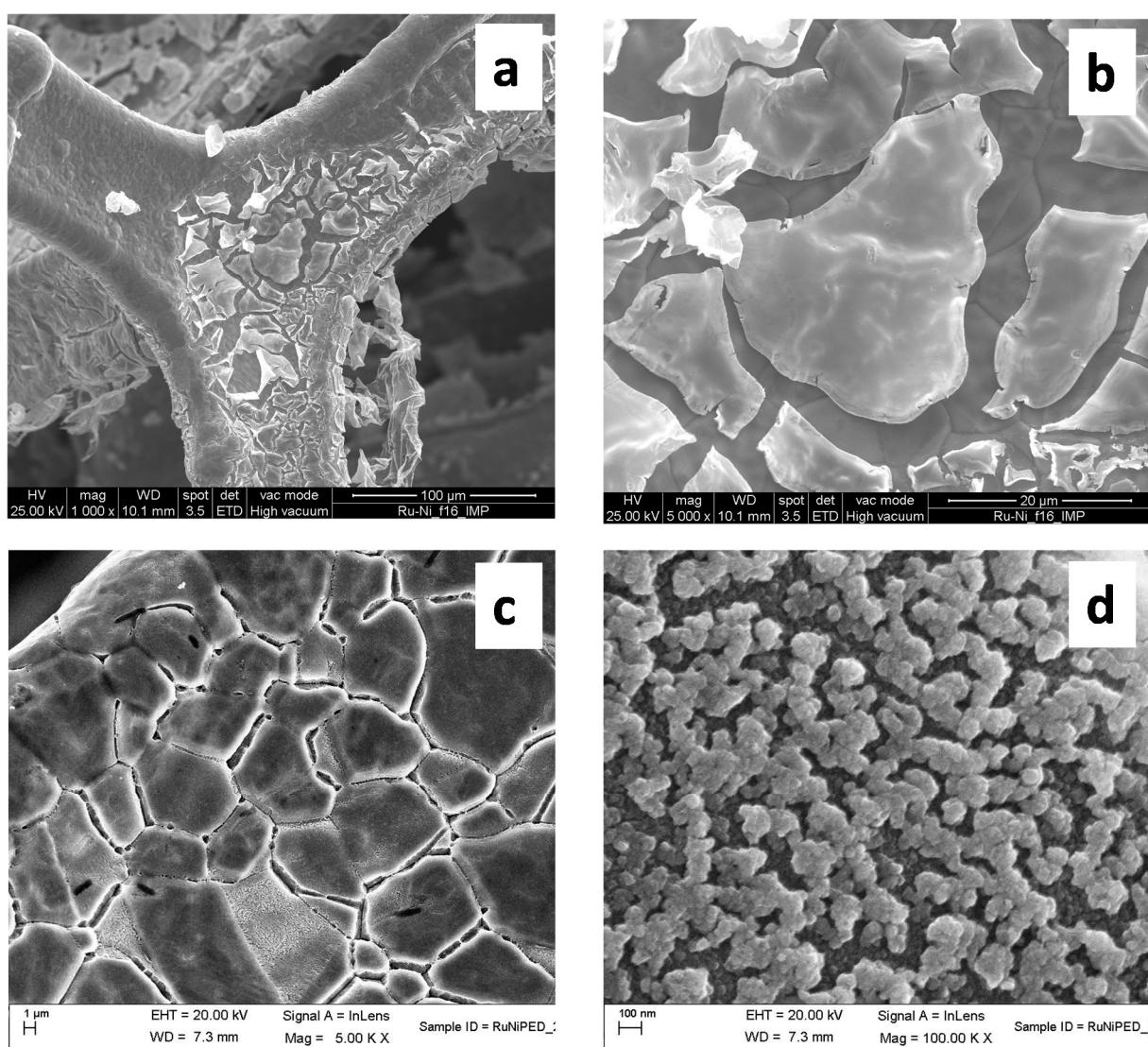


Figure S2. SEM images of as prepared Ru/Ni (a and b) and Ru/Ni-PED (c and d).

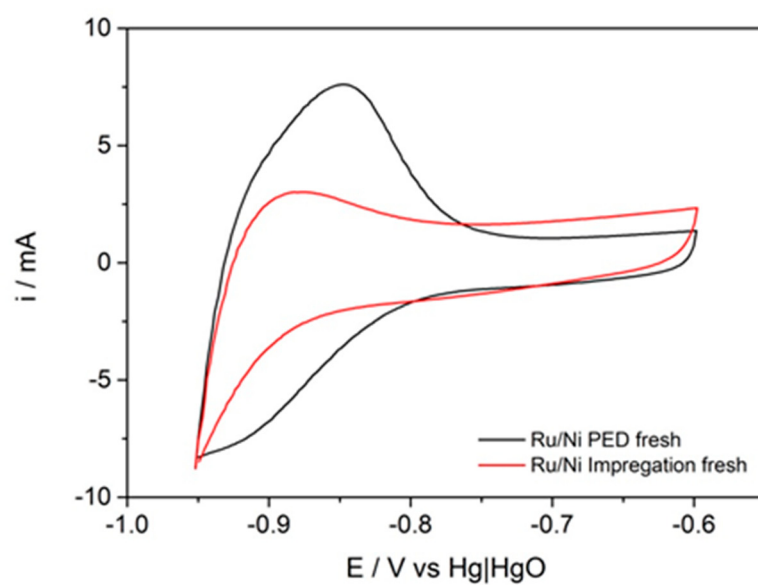


Figure S3. Cyclic voltammograms recorded with Ru/Ni and Ru/Ni PED catalysts in 1.0 M KOH at 20 mV s^{-1} scan rate.

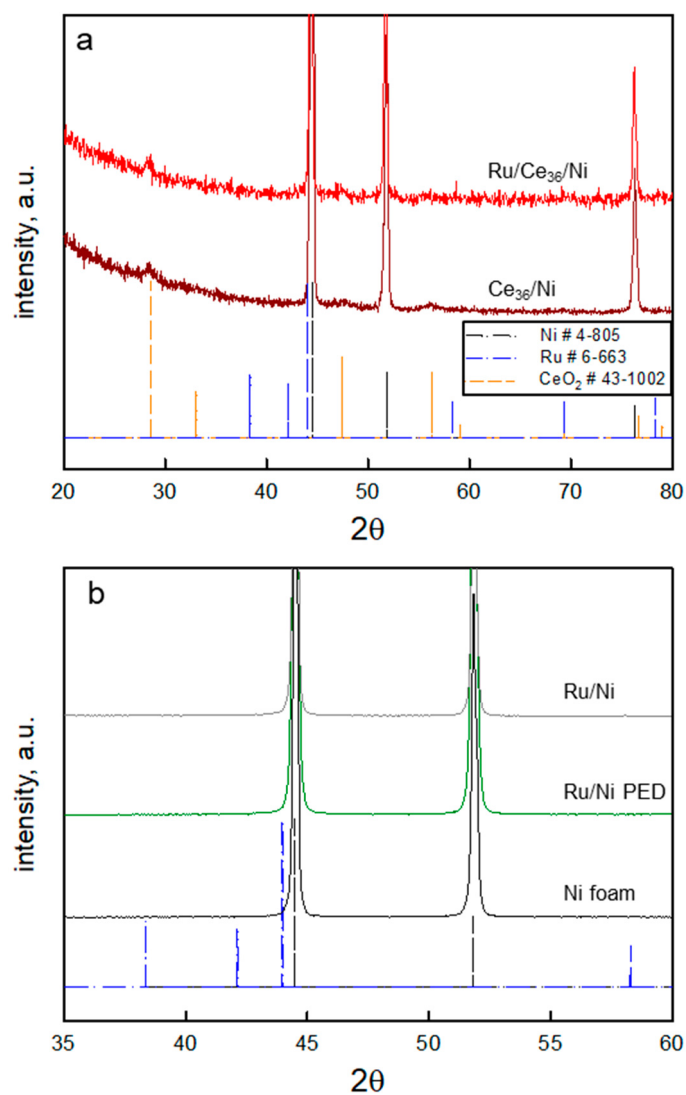


Figure S4. XRD spectra of foam catalysts: (a) Ce_{36}/Ni and $\text{Ru}/\text{Ce}_{36}/\text{Ni}$; (b) bare Ni foam, Ru/Ni and Ru/Ni PED.