

The Distinctive Effects of Glucose-Derived Carbon on the Performance of Ni-Based Catalysts in Methane Dry Reforming

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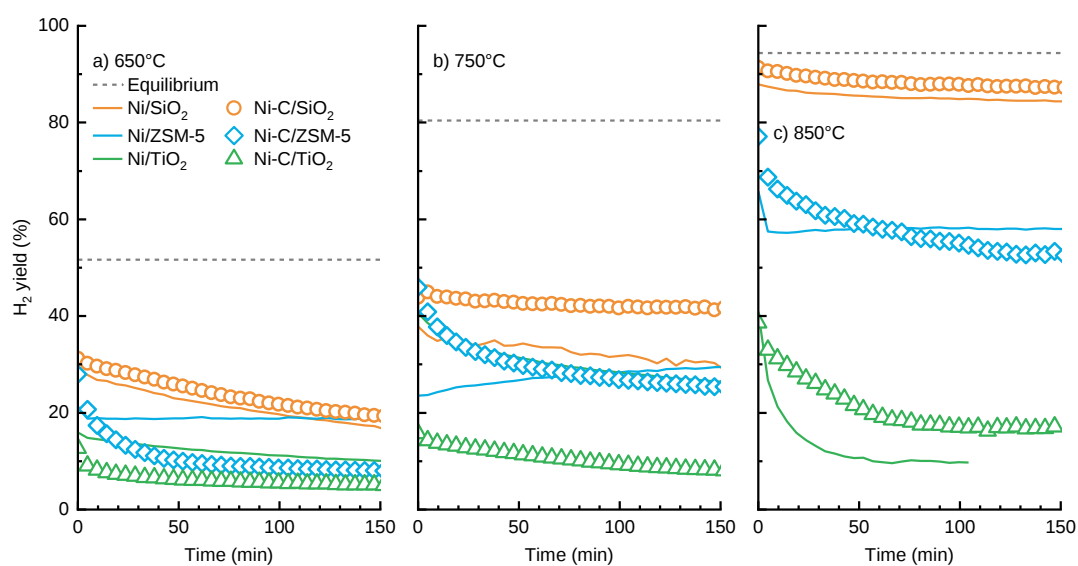


Figure S1 H₂ yield at a) 650 °C, b) 750 °C and c) 850 °C.

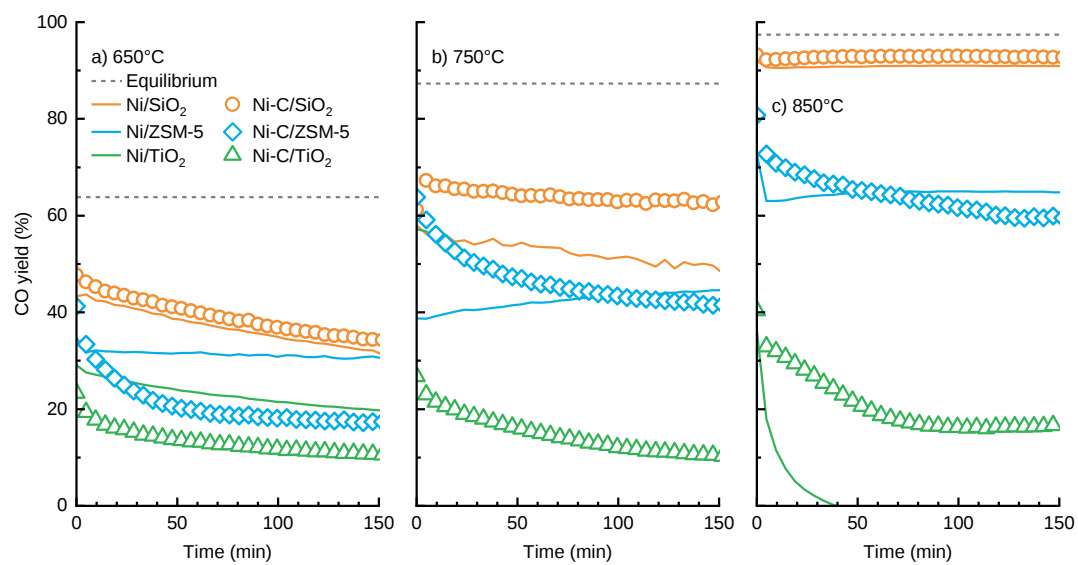


Figure S2 CO yield at a) 650 °C, b) 750 °C and c) 850 °C.

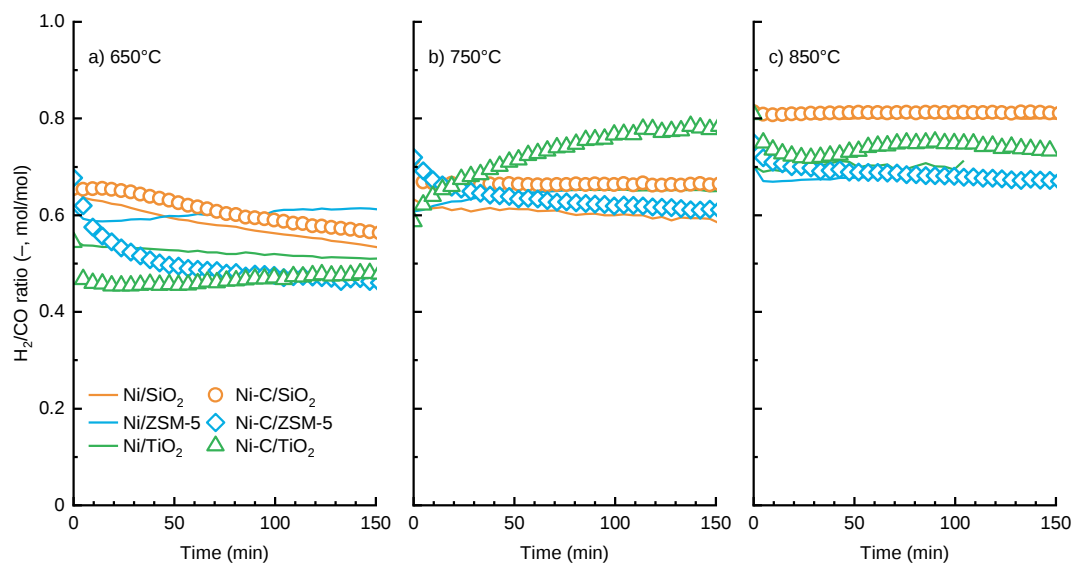


Figure S3 $H_2:CO$ ratio at a) 650 °C, b) 750 °C and c) 850 °C.

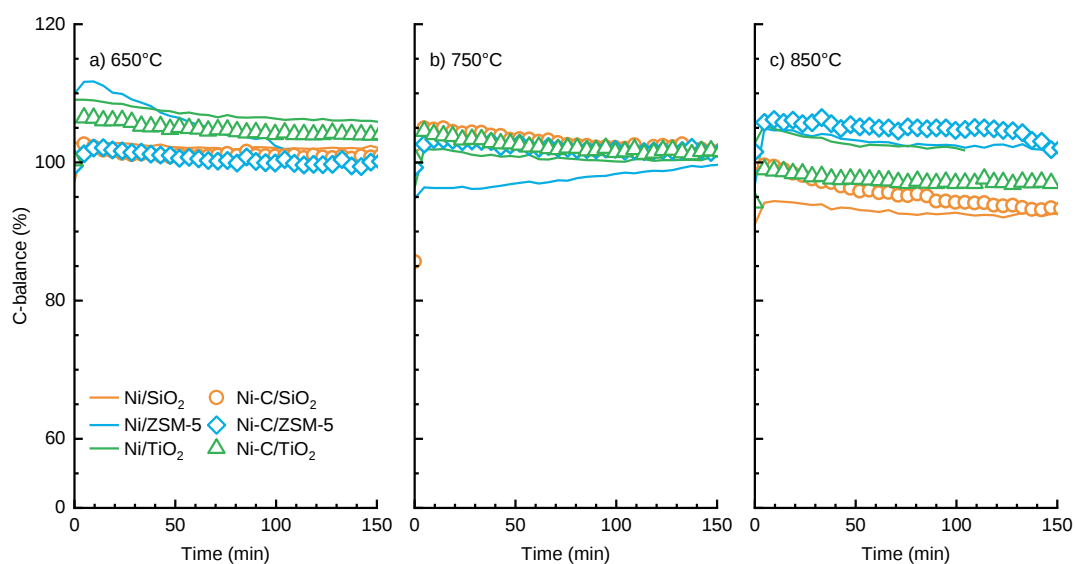


Figure S4 Carbon balance at a) 650 °C, b) 750 °C and c) 850 °C.

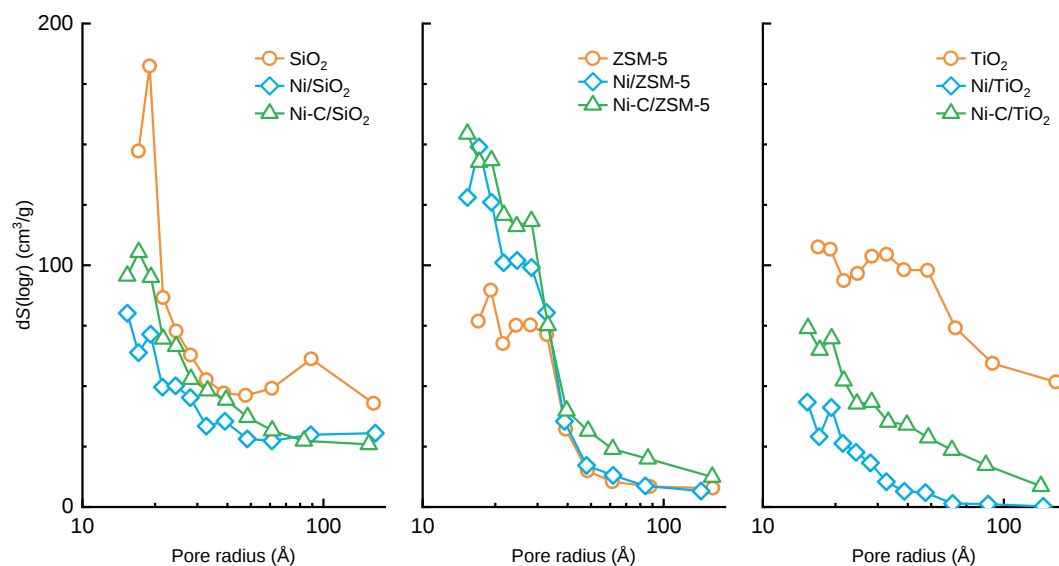


Figure S5 BJH pore size distributions a) SiO_2 , b) ZSM-5 and c) TiO_2 supported Ni-catalysts

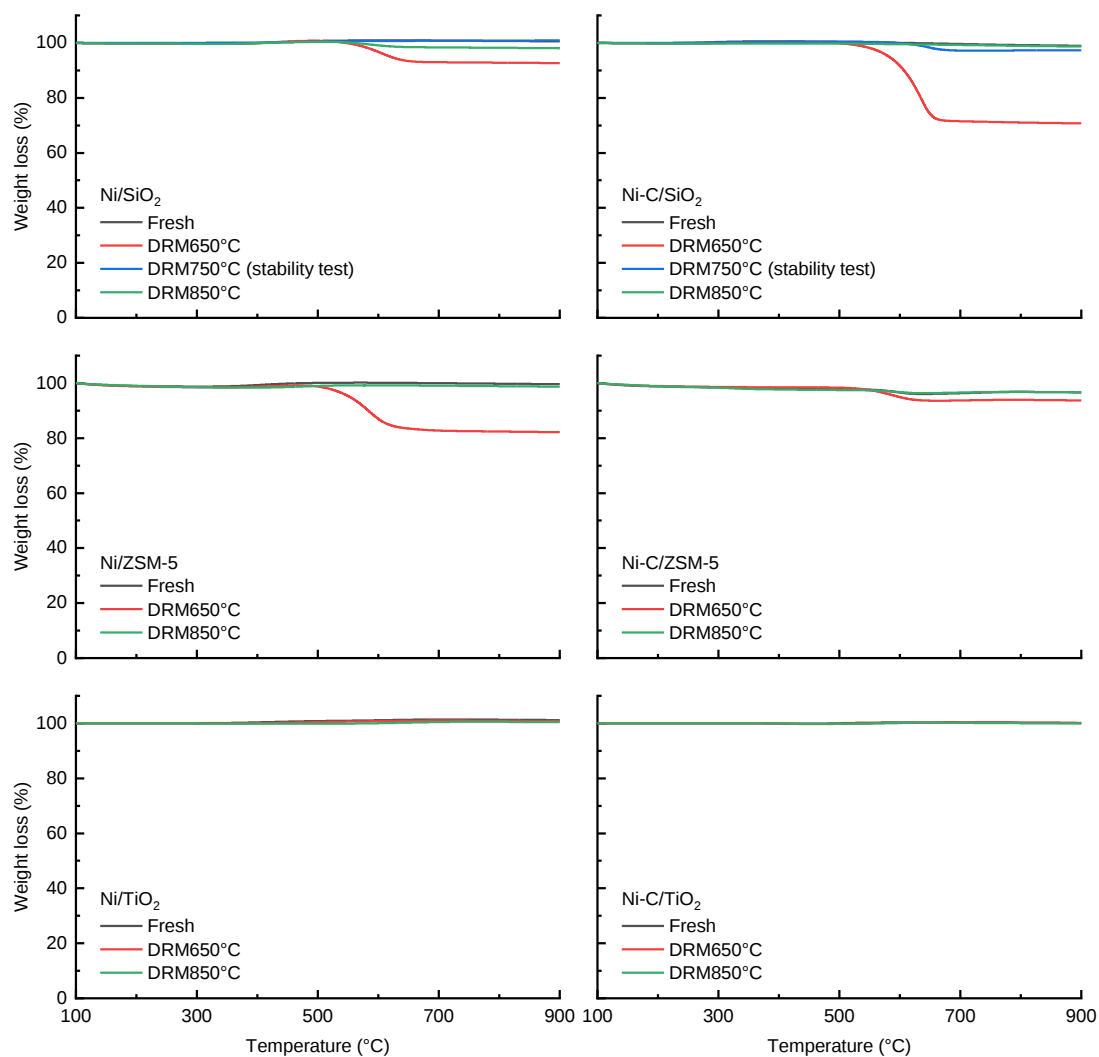


Figure S6 TGA profile of catalysts before and after DRM. a) Ni/SiO_2 , b) $\text{Ni-C}/\text{SiO}_2$, c) $\text{Ni}/\text{ZSM-5}$, d) $\text{Ni-C}/\text{ZSM-5}$, e) Ni/TiO_2 , and f) $\text{Ni-C}/\text{TiO}_2$.

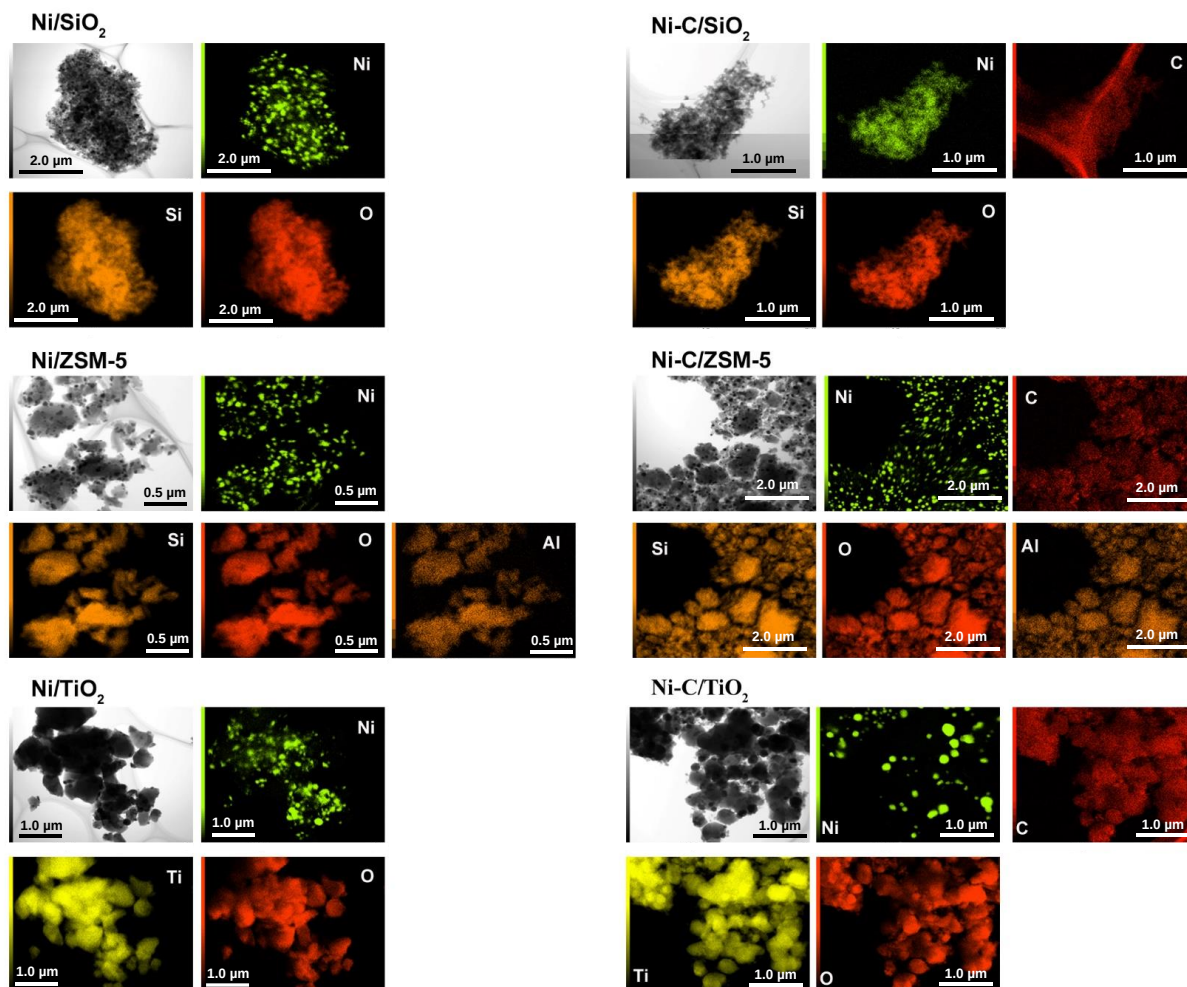


Figure S7 STEM-EDX images and elemental distribution of catalysts before DRM.

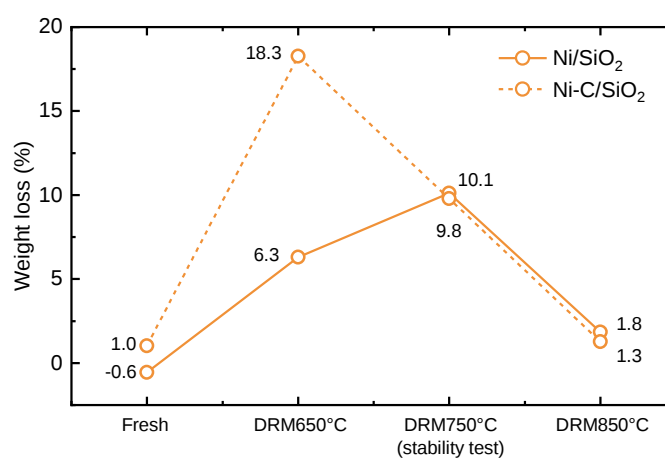


Figure S8 Comparison of weight loss (%) calculated from TGA trace.