

Supporting Information

Grafting Ni particles onto SBA-15, and their enhanced performance for CO₂ methanation

Baowang Lu, Yiwen Ju, Takayuki Abe and Katsuya Kawamoto

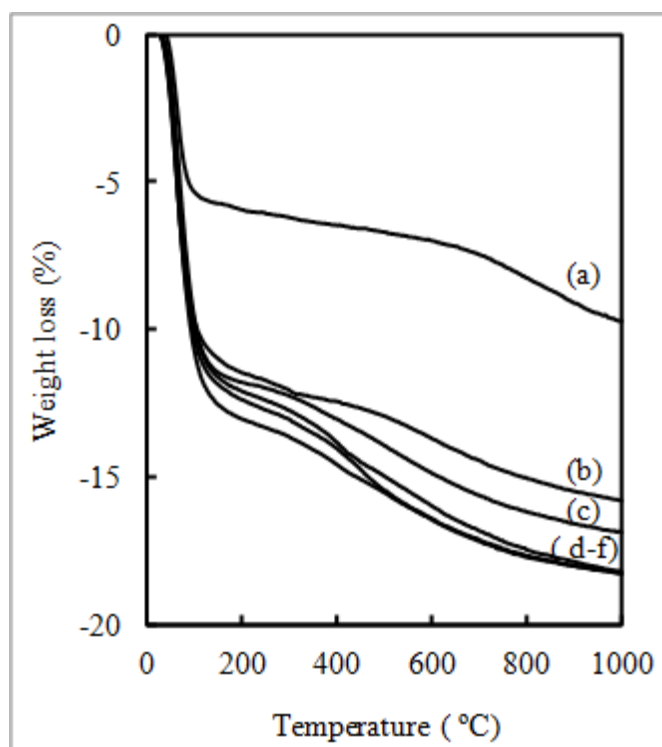


Fig. S1 TG curves of SBA-15 (a) and SBA-15 modified with different NH₃/Ni mole ratios ((b) 0, (c) 1, (d) 2, (e) 3, (f) 4).

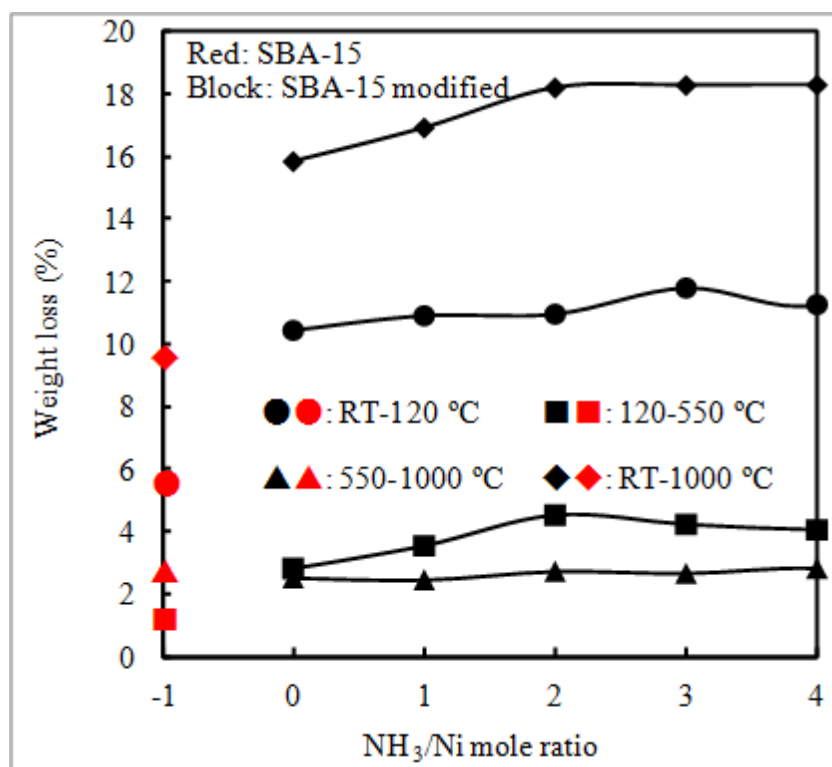


Fig. S2 Relationship between weight losses obtained from TG curves and NH_3/Ni mole ratios.

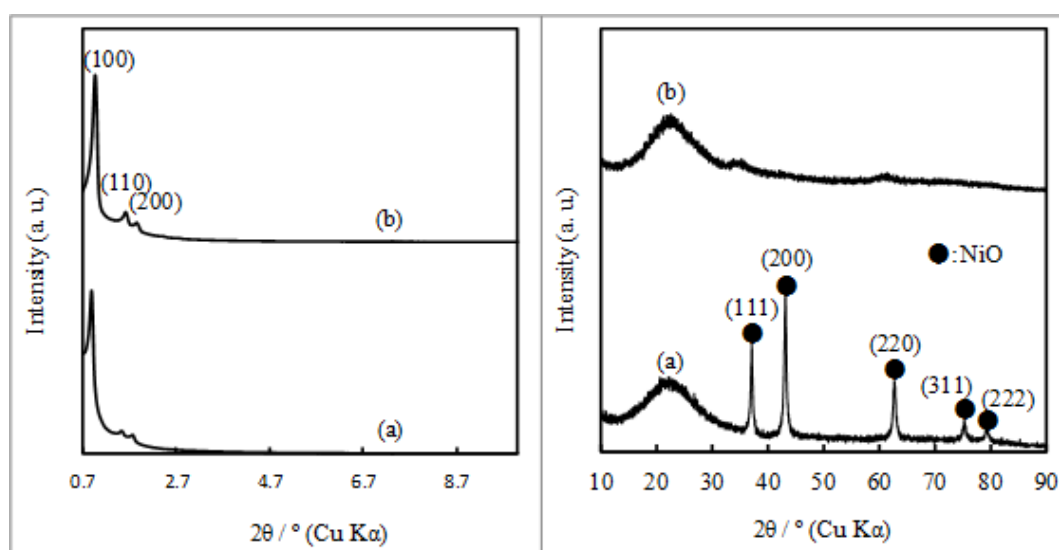


Fig. S3 XRD patterns of SBA-15 supported ((a) NiO/SBA-15) and grafted ((b) Ni-SBA-15) with Ni particles.

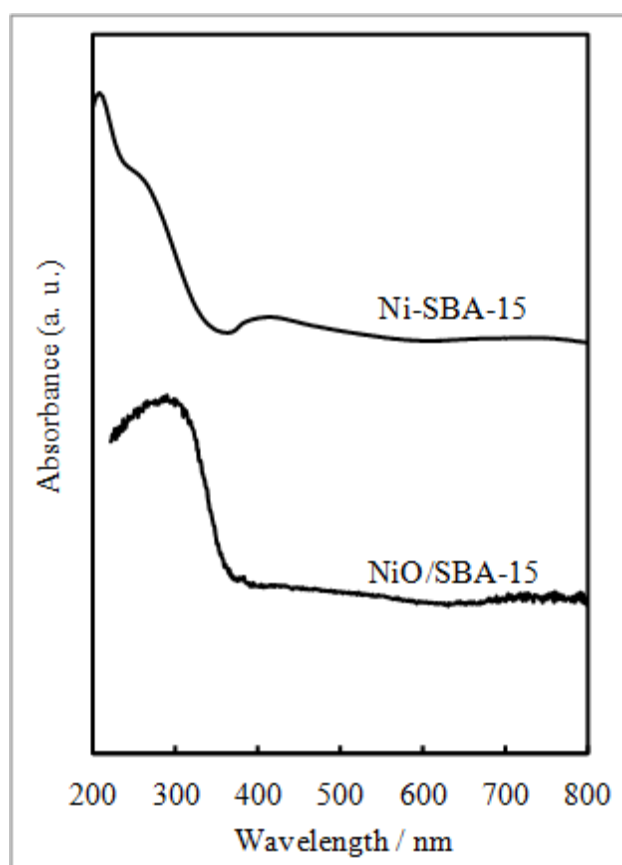


Fig. S4 UV-vis absorbance spectra of SBA-15 supported (NiO/SBA-15) and grafted (Ni-SBA-15) with Ni particles.

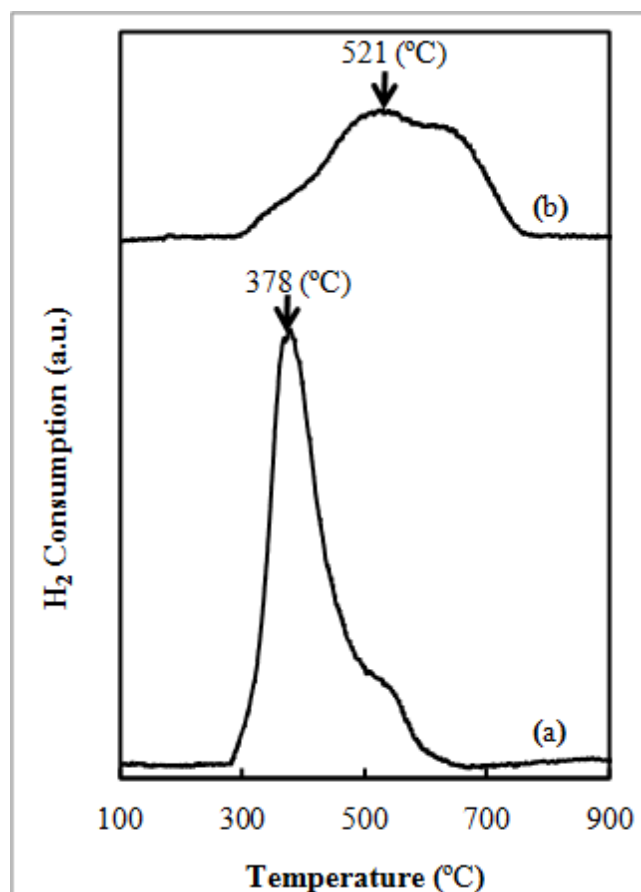


Fig. S5 H₂-TPR profiles of SBA-15 supported ((a) NiO/SBA-15) and grafted ((b) Ni-SBA-15) with Ni particles.