



Supplementary Information for

Harnessing the Beneficial Attributes of Ceria and Titania in a Mixed-Oxide Support for Nickel-Catalyzed Photothermal CO₂ Methanation

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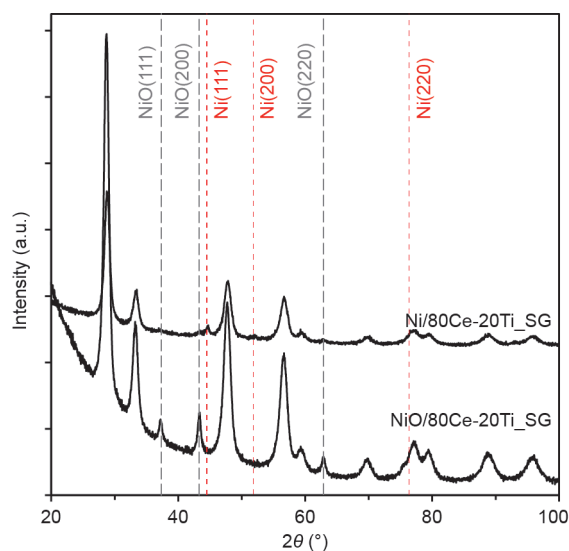


Fig. S1. XRD spectra of nickel supported on 80Ce-20Ti_{SG} before (NiO/80Ce-20Ti_{SG}) and after (Ni/80Ce-20Ti_{SG}) reduction.

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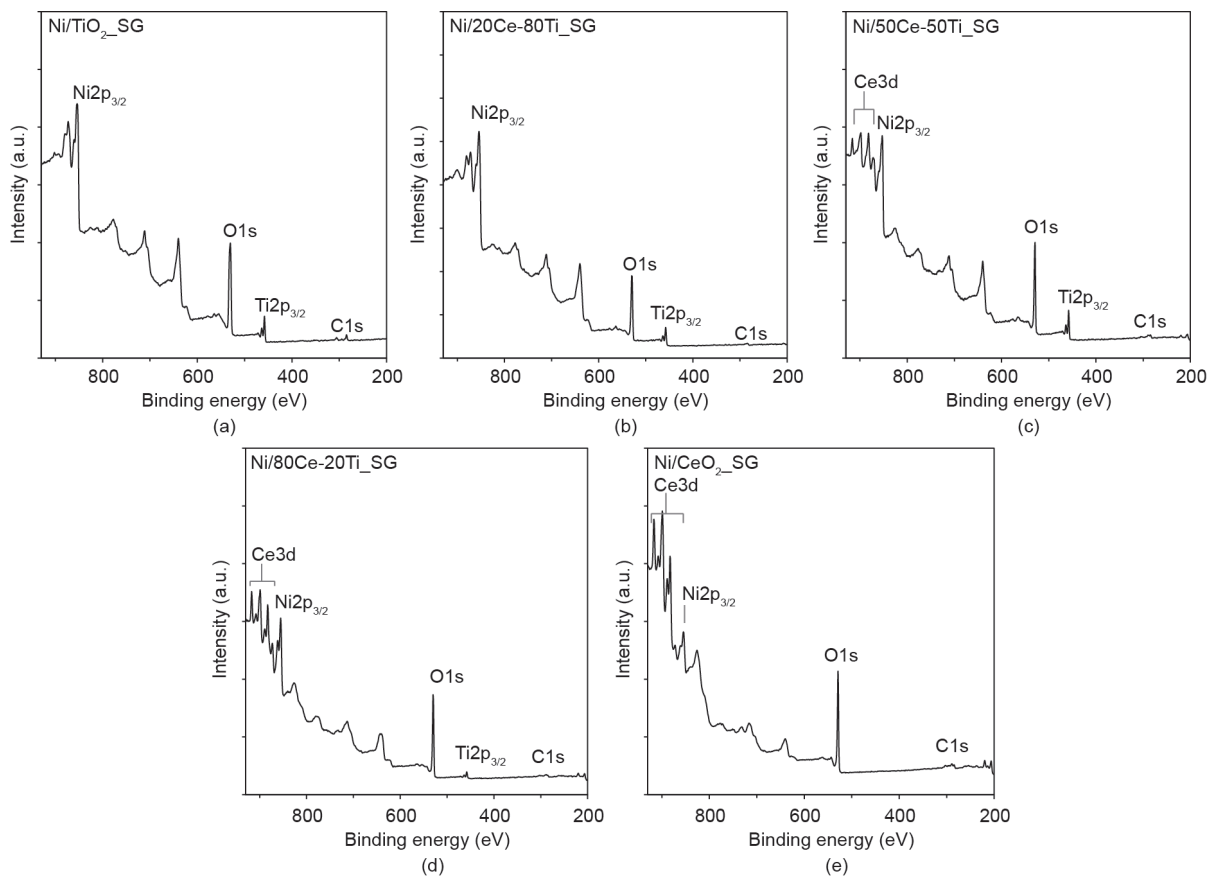


Fig. S2. Overall XPS survey scans of the reduced Ni/xCe-yTi_SG catalysts: (a) Ni/TiO₂_SG, (b) Ni/20Ce-80Ti_SG, (c) Ni/50Ce-50Ti_SG, (d) Ni/80Ce-20Ti_SG, and (e) Ni/CeO₂_SG.