

Electronic Supplementary Information

**CO₂ reforming of methane over Mg-promoted Ni/SiO₂ catalysts: the influence of Mg
precursor and impregnation sequence**

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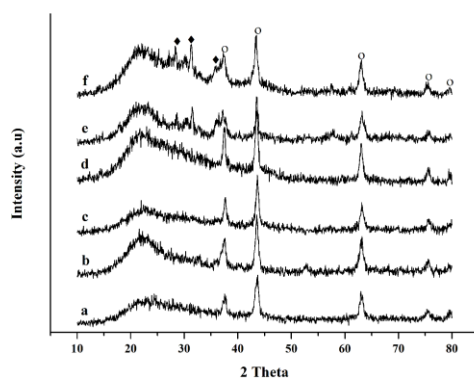


Fig. S1: XRD patterns of several fresh catalysts.
a, Ni-Mg/SiO₂-N; b, Mg/Ni/SiO₂-N; c, Ni-Mg/SiO₂-S;
d, Mg/Ni/SiO₂-S; e, Ni-Mg/SiO₂-Cl; f, Mg/Ni/SiO₂-Cl.
(o): NiO; (♦): MgSiO₃.

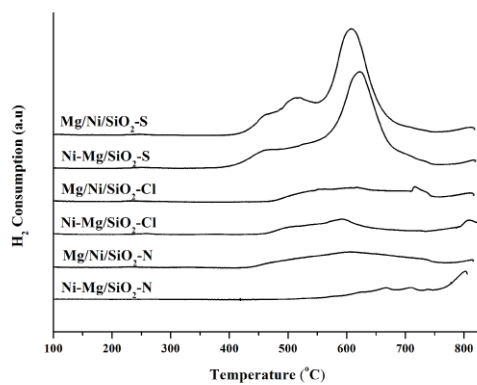


Fig. S2: TPR-H₂ profiles of several fresh catalysts.

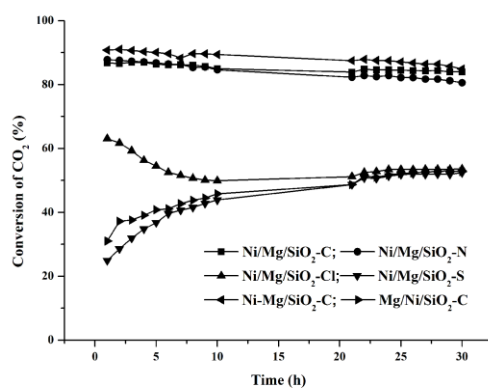


Fig. S3: The tendency of CO₂ conversion on selected catalysts within 30 h.

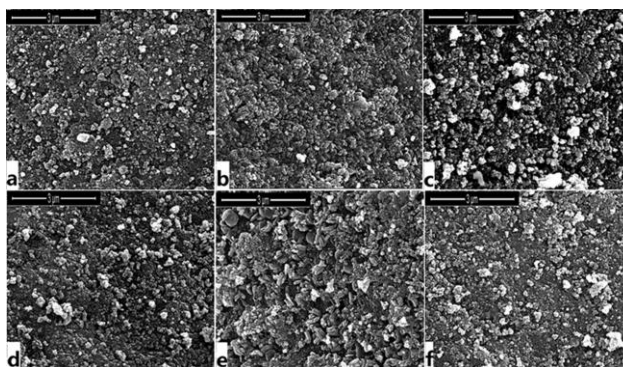


Fig. S4: SEM images of the typical fresh catalysts.

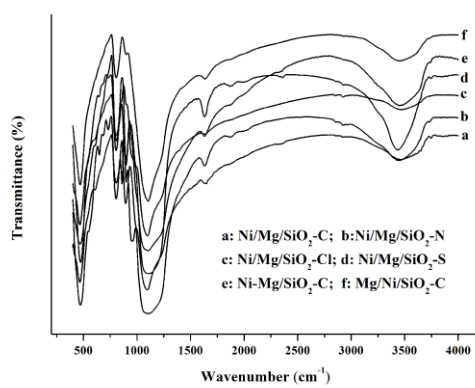


Fig. S5: IR spectra of the typical used catalysts after 30 h reaction.