

Supporting Information

for

Dry reforming of methane over fly ash modified with different content of MgO

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Table S1. NiO(200) XRD diffraction angle and Ni particle size of Ni/FA samples.

Sample name	NiO particle size by XRD	Reduction catalyst particle size by XRD	Used catalyst Ni particle size by XRD	XRD angle (2 θ) (degree)
NiO	-	-	-	43.2
Ni/FA	18nm	30nm	31nm	43.3
Ni/NaFA	14nm	28nm	28nm	43.3
Ni/NaFA-	11nm	18nm	23nm	43.0

M1				
Ni/NaFA-	16nm	21nm	30nm	43.1
M2				
Ni/NaFA-	12nm	23nm	27nm	43.2
M3				

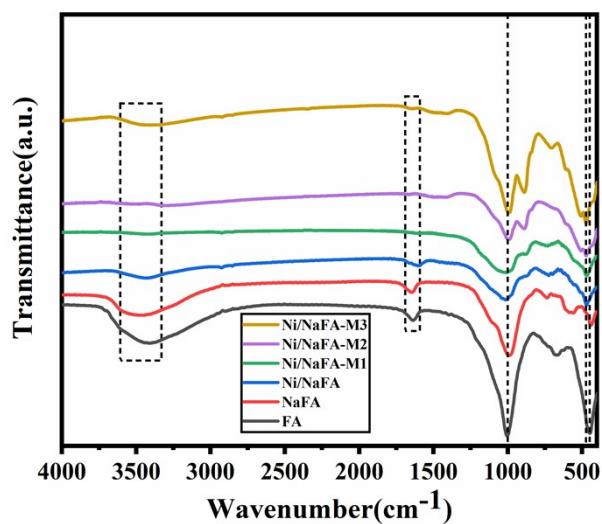


Figure S1. FTIR spectra of catalysts with different MgO content.