

Supporting Information
Improvement Ni Stabilised on Al₂O₃-CeO₂ Catalysts for Dry Reforming of Methane: Effect of Fe, Mg and Pt Doping

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Figure S1: Catalytic performance of the (A) $\text{Al}_2\text{O}_3\text{-CeO}_2$; (B) $\text{Ni}/\text{Al}_2\text{O}_3\text{-CeO}_2$; (C) $\text{FeNi}/\text{Al}_2\text{O}_3\text{-CeO}_2$; (D) $\text{Pt}/\text{FeNi}/\text{Al}_2\text{O}_3\text{-CeO}_2$; (E) $\text{Mg}/\text{FeNi}/\text{Al}_2\text{O}_3\text{-CeO}_2$; and (F) $\text{Pt}/\text{Mg}/\text{FeNi}/\text{Al}_2\text{O}_3\text{-CeO}_2$ composite catalysts. Reaction condition ; reaction temperature 550-700 °C ; P = 1 bar; feed gas pure CH_4 and $\text{CH}_4/\text{CO}_2 = 50/50$, flow rate = 60 mL min^{-1} , WHSV = 12,000 $\text{mL min}^{-1} g_{cat}^{-1}$.

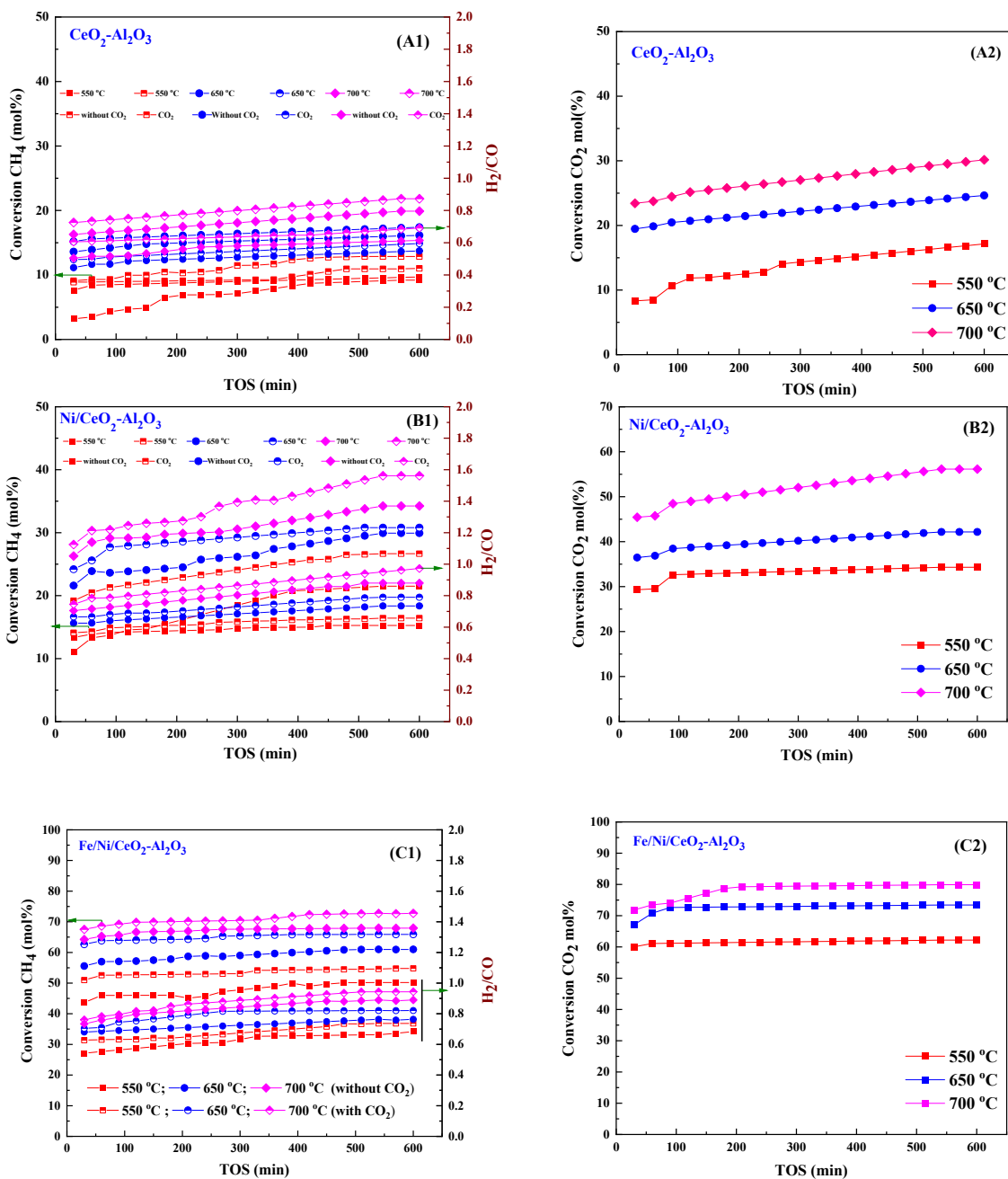


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composite catalysts. Reaction condition ; reaction temperature 550-700 °C ; P = 1 bar; feed gas pure CH₄ and CH₄/CO₂ = 50/50, flow rate = 60 mL min⁻¹, WHSV = 12,000 mL min⁻¹ g_{cat}^{-1} .

