

The performance of nickel catalyst with aluminum core for CO₂ methanation

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Recently there has been growing interest in CO₂ methanation process in which excess electrical energy is converted into chemical energy of methane. CO₂ methanation is strong exothermic reaction and I synthesized nickel catalyst with high thermal conductivity which is attributed to the catalyst core of metal, namely aluminum. The catalyst showed good activity and stability in CO₂ methanation because high thermal conductivity favors strong exothermic reaction.