

A metal catalyst for methane steam reforming: effect of sintering temperature on catalytic performance

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Methane steam reforming (MSR) is a well known industrial process for the cost-effective production of hydrogen on a commercial scale. Recently, hydrogen production via MSR has regained research attention for application of the portable and on-board fuel processors. In our previous study, we developed a porous nickel metal catalyst as a novel reforming catalyst that demonstrated high methane conversion and stable hydrogen production. In this work, the effect of sintering temperature of nickel metal catalyst on catalytic performance has been investigated.