

Study of W doped nickel-based catalyst for for Steam-CO₂ reforming

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We prepared tungsten doped nickel based catalyst for combined Steam-CO₂ reforming of methane. The physicochemical properties were inspected by XRD, TPR, TEM, SEM and the amount of deposit coke was examined by TGA analysis. The outcome showed that small amount of tungsten with silver promoter had identical crystalline structure to the one with silver only and resulted in the similar coke resistance to that. By the result, it can be postulated that doping additional transition metal can play the equivalent role as noble metal does in nickel based catalyst.