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عنوان مقاله:

Hydrogen Production from Steam Reforming of Methanol: Influence of Al-Precursor in Combustion Synthesis of CuO/ZnO/CeO2/Al2O3 Nanocatalyst

محل انتشار:

پنجمین کنگره بین المللی نانو و فناوری نانو (ICNN2014) (سال: 1393)

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خلاصه مقاله:

Producing hydrogen methanol reforming successfully feed via steam was CuO/ZnO/CeO2/Al2O3nanocatalysts. Various methods used to improve catalytic performance of SRM catalysts. Fuel content plays a key rolein combustion synthesize method as a novel process preparing nanosized mixed oxides. Studying influence of Alprecursor, two CuO/ZnO/CeO2/Al2O3 (45/45/5/10 %wt) catalysts were synthesized via urea nitrate combustionsynthesize method. Once boehmite (AlOOH) used as Al precursor and once Al(NO3)3.9H2O. XRD analysis confirmed the crystalline phases beside crystalline size reduction and improved dispersion can be seen in EDX dot-mapping analysisin sample with aluminium nitrate precursor. Improved catalytic performance can also be .seen for the same sample

کلمات کلیدی: CuO/ZnO/CeO2/Al2O3, Methanol, Hydrogen, Precursor

لینک ثابت مقاله در پایگاه سیویلیکا:

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