

Methanol synthesis from carbon monoxide and hydrogen over Cu-ZnO-
Al₂O₃/Ce_xZr_{1-x}O₂ catalysts

강석환, 배종욱, 오종혁, 전기원*
한국화학연구원
(kwjun@kriect.re.kr*)

The methanol synthesis from carbon monoxide and hydrogen was studied on the Cu-based catalysts containing Cu/ZnO/Al₂O₃ supported by Ce_xZr_{1-x}O₂. The catalysts were prepared by co-precipitation in the slurry phase with Ce_xZr_{1-x}O₂ which prepared by sol-gel method, and were characterized by nitrogen adsorption, XRD, H₂-TPR and NH₃-TPD. From the results, optimum component between Ce and Zr for Ce_xZr_{1-x}O₂ as support can be determined.