

Synthesis and characterization of porous CuO-ZnO composite and its catalytic application for CO oxidation

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A porous CuO-ZnO composite with sphere type was prepared by sol-gel method. The morphology, phase structure, surface area and reactivity for CO oxidation of the CuO-ZnO composite were characterized by SEM, XRD, BET, TGA and H₂-TPR. Effect of pretreatment condition on catalytic performance over porous CuO-ZnO composite has investigated in a fixed bed reactor. CuO-ZnO composite catalyst exhibits higher activity at low temperature than the control catalyst, compositionally identical CuO/ZnO synthesized by CuO impregnation of ZnO (made by sol-gel method).