

Role of ZrO_2 in the hydrogenolysis of butylbutyrate over Cu/ZnO/ ZrO_2 catalysts: Promoter and/or Support?

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Cu/ZnO, WGS, Al_2O_3 , ZrO_2
가 Cu/ZnO/ Al_2O_3 가 Cu/ZnO/ ZrO_2
가 Cu/ZnO/ ZrO_2 가
Cu/Zn ZrO_2 가
XRD, TGA
precursor catalyst, N₂O titration
butylbutyrate
catalyst descriptor