

### Enhanced Cu/Zn catalyst by Ce addition for water gas shift reaction

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water gas shift(WGS) (CO+H<sub>2</sub>O) CO<sub>2</sub>+H<sub>2</sub> H = -10 kcal/mol  
가 가 가

Cu/Zn . ferrochrome  
가 , Cu/Zn  
Cu/Zn oxygen storage capacity 가 Ce 가  
Cu Zn Ce  
CeO<sub>2</sub>가 10wt% 가