

1,\*  
; 1  
(jkim21@khu.ac.kr\*)

(MoO<sub>2</sub>, MoO<sub>3</sub>)

MoO<sub>2</sub> 가

dodecane  
carbon

MoO<sub>2</sub> 가

MoO<sub>3</sub> 가

H<sub>2</sub>  
XRD, BET, GC, FE-SEM