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Fig. S1. The wide angle XRD patterns (A) and the relative crystallinity (B) of ZSM-5.



Fig. S2. N_2 adsorption-desorption patterns (A) and pore size distributions (B) of different catalysts.



Fig. S3. XRD patterns of NiMo supported catalysts at wide angle region.



Fig. S4. N_2 adsorption-desorption patterns (A) and pore size distributions (B) of the catalyst NiMo/C-MA.

Samples	$S_{BET}^{a}(m^2 \cdot g^{-1})$	$V_{mes}^{b}(cm^{3}\cdot g^{-1})$	$V_{mic}^{c}(cm^{3}\cdot g^{-1})$	d _{BJH} ^d (nm)
NiMo/γ-C	205.05	0.36	0.009	6.31
Note: a: Calculated by BET method.				

Table 1. The structure parameters of the catalyst NiMo/ γ -C.

te. a. Calculated by BET Illethou.

b: Calculated using BJH method.

c: Calculated using the t-plot method.

d: Mesopore diameter was calculated using BJH method.