Electronic Supplementary Material

Synthesis and catalytic properties of ZSM-5 zeolite with hierarchical pores prepared in the presence of \(n\)-hexyltrimethylammonium bromide

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Fig. S1 SEM images of the hierarchical zeolites with different Si/Al ratio
Fig. S2 SEM images of the hierarchical zeolites prepared after crystallization at 170°C for different times
Fig. S3 SEM images of the hierarchical zeolites prepared at different crystallization temperatures
Fig. S4 SEM images of the hierarchical zeolites prepared with different HTAB amounts
Fig. S5 N₂ adsorption isotherms and PSD curves of the hierarchical zeolites prepared at different crystallization times. For clarity, the isotherms and PSD curves are vertically offset by 200 cm⁻³/g and 0.01 cm⁻³/g nm respectively.
**Fig. S6** XRD patterns of the hierarchical zeolites prepared after hydrothermal treatment at 170°C for different times
Fig. S7 XRD pattern of the as-synthesized sample HZ-32-140C-6d-13
Fig. S8 N$_2$ adsorption isotherm (a) and pore size distribution (b) of the calcined sample HZ-32-140C-6d-13
Fig. S9 XRD pattern of sample HZ-50-140C-2d-13
Fig. S10 SEM image of a conventional microporous ZSM-5 zeolite prepared without addition of HTAB
**Fig. S11** SEM (a) and TEM (b) images of sample prepared using DTAB