

Supporting Information

For

The effect of Si/Al ratio on the catalytic performance of hierarchical porous ZSM-5 for catalyzing benzene alkylation with methanol

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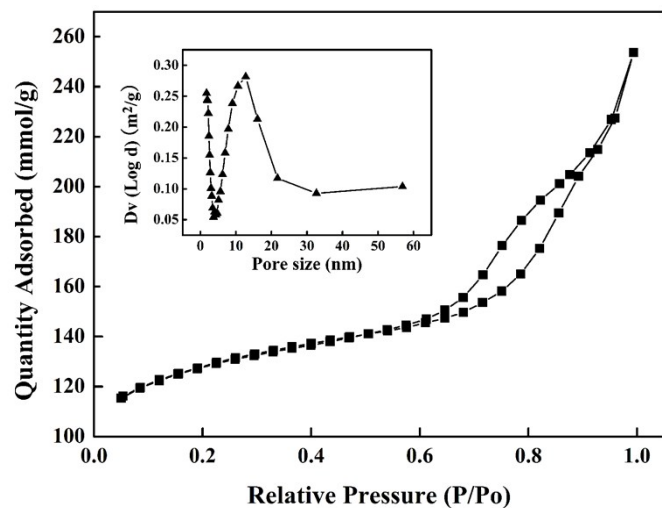


Figure S1 Nitrogen adsorption-desorption isotherms and pore-size distribution of synthesized hierarchical porous ZSM-5 (Si/Al ratio 180)

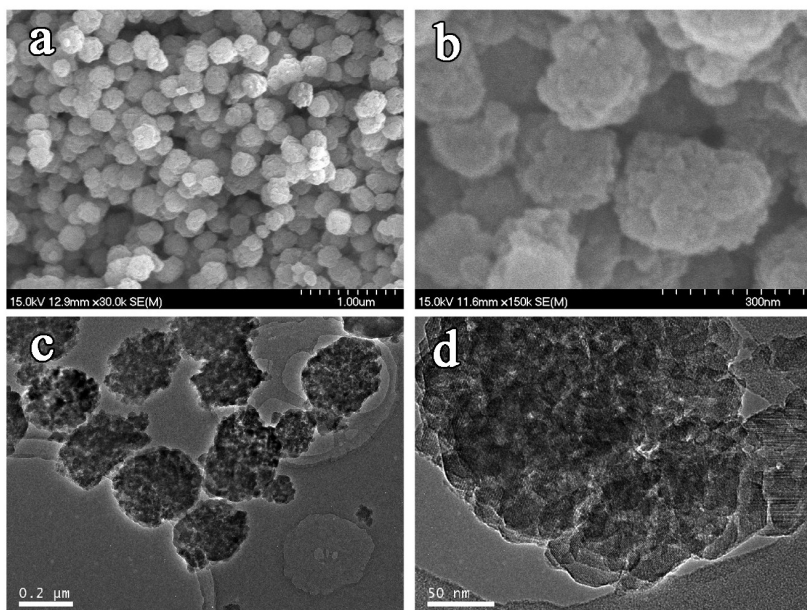


Figure S2 SEM image (a, b) and TEM image (c, d) of synthesized hierarchical porous ZSM-5 (Si/Al ratio 180).

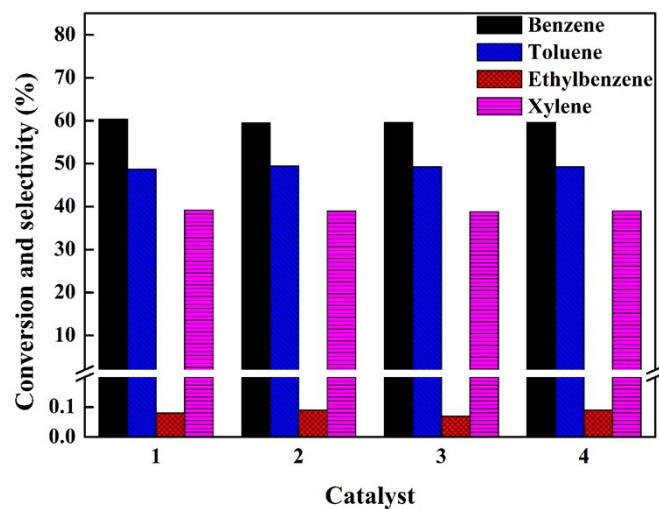


Figure S3 Catalytic performance of synthesized hierarchical porous ZSM-5 (Si/Al 1800) in benzene alkylation with methanol. (1, evaluation of first synthesized sample; 2, evaluation of first synthesized sample again; 3, evaluation of second synthesized sample; 4, evaluation of third synthesized sample)

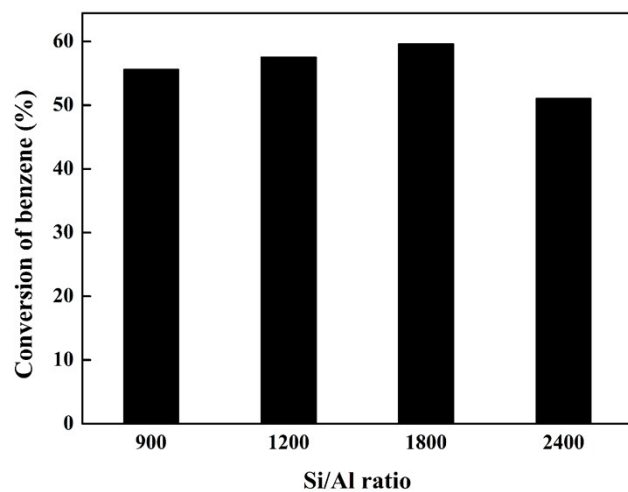


Figure S4 Catalytic performances of synthesized hierarchical porous ZSM-5 (with Si/Al ratio 900, 1200, 1800 and 2400) in benzene alkylation with methanol.