Electronic Supplementary Materials to:

A mesoporous aluminosilicate prepared by simply coating fibrous γ-AlOOH on the external surface of SBA-15 for catalytic hydrocarbon cracking

Zongbo Shi, Yejun Guan*, Peng Wu, Mingyuan He*

Shanghai Key Laboratory of Green Chemistry and Chemical Processes, School of Chemistry and Molecular Engineering, East China Normal University, North Zhongshan Rd. 3663, Shanghai 200062, China

Fig. S1. Small- (left) and wide- (right) angle XRD patterns of the steamed Al₂O₃ (a), steamed SBA-Al₂O₃ (b), and steamed SBA/Al₂O₃-imp (c).

Fig. S2. NH₃-TPD profiles of the catalysts before (solid line, top) and after (dash line, bottom) steaming at 800 °C for 4 h: Al₂O₃ (a), SBA-Al₂O₃ (b), and comparison SBA/Al₂O₃-imp sample (c).

Fig. S3. CO₂ evolution during TPO of the coked catalysts before (solid line, top) and after (dash line, bottom) steaming at 800 °C for 4 h: Al₂O₃ (a), SBA-Al₂O₃ (b), and SBA/Al₂O₃-imp (c).
Fig. S1. Small- (left) and wide- (right) angle XRD patterns of the steamed Al₂O₃ (a), steamed SBA-Al₂O₃ (b), and steamed SBA/Al₂O₃-imp (c).
Fig. S2. NH$_3$-TPD profiles of the catalysts before (solid line, top) and after (dash line, bottom) steaming at 800 °C for 4 h: Al$_2$O$_3$ (a), SBA-Al$_2$O$_3$ (b), and comparison SBA/Al$_2$O$_3$-imp sample (c).
Fig. S3. CO$_2$ evolution during TPO of the coked catalysts before (solid line, top) and after (dash line, bottom) steaming at 800 °C for 4 h: Al$_2$O$_3$ (a), SBA-Al$_2$O$_3$ (b), and SBA/Al$_2$O$_3$-imp (c).