

Supporting Information

Catalyst Accessibility and Acidity in the Hydrocracking of HDPE: A Comparative Study of H-USY, H-ZSM-5, and MCM-41 Modified with Ga and Al

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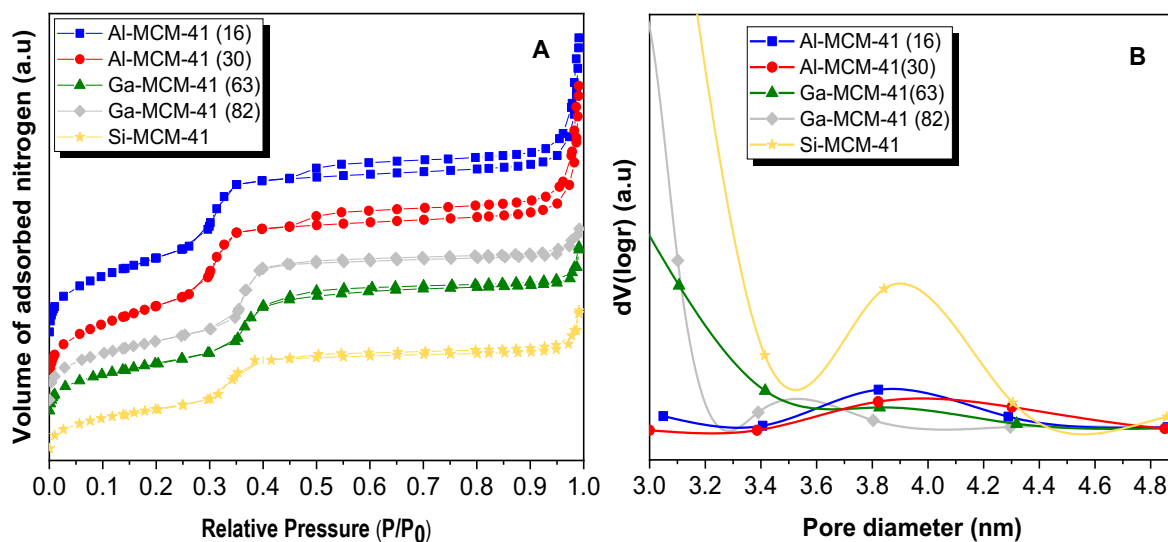


Figure S.1- Nitrogen sorption isotherms (A) and pore size distribution (PSD) (B) of Al and Ga modified MCM-41 materials with distinct Si/metal ratios (Si/Al=16 and 30; Si/Ga=63 and 82).

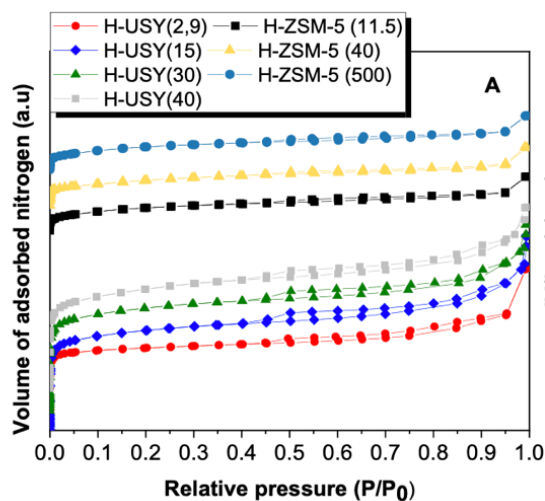


Figure S.2- Nitrogen sorption isotherms of H-USY and H-ZSM-5 (A) with distinct Si/Al ratio.

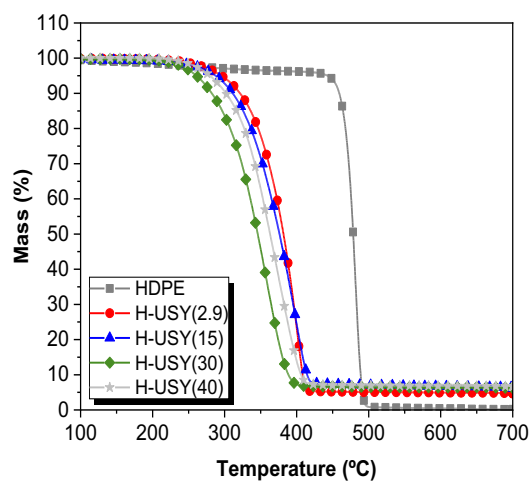
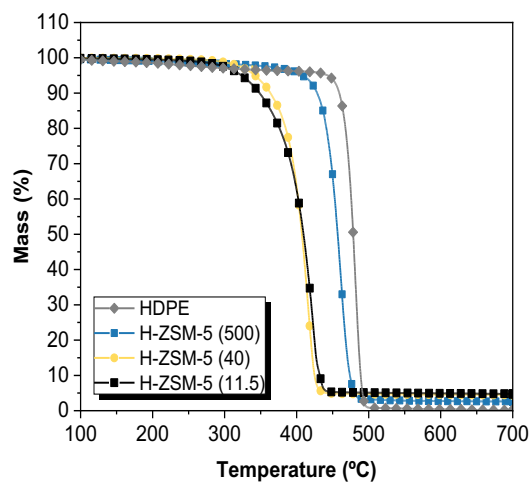
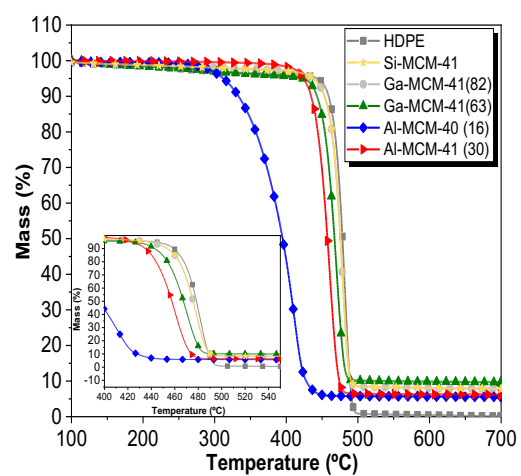


Figure S.3- TGA profiles obtained for HDPE degradation under H_2 atmosphere over Al and Ga modified MCM-41 materials (A, B), H-ZSM-5 (C,D) and H-USY (E,F) zeolites with distinct Si/metal ratios