

Supporting Information for the manuscript Long lived charge separated states induced by *t*-stilbene incorporation in the pores of Brønsted acidic HZSM-5 zeolites : Effect of gallium on the spontaneous ionization process by Alain Moissette^{†*}, Raul F. Lobo^{‡}, Hervé Vezin[†], Khalid A. Al-Majnoui[‡] and Claude Brémard[†]**

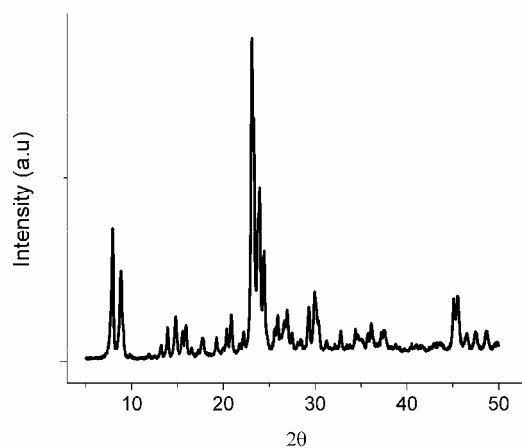


Figure S1: X-ray powder diffraction pattern of Ga_ZSM5 after calcination and ion-exchanged into the ammonium form.

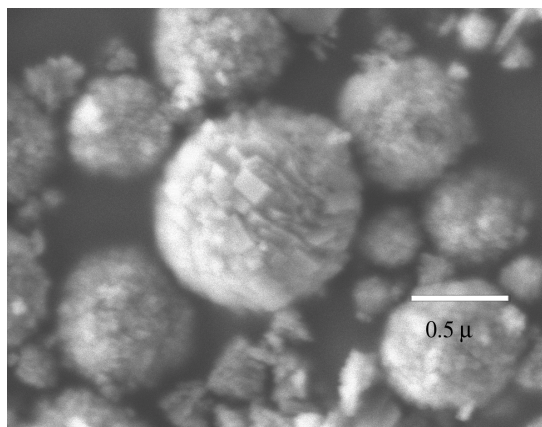


Figure S2: SEM image of as-synthesized Ga_ZSM5

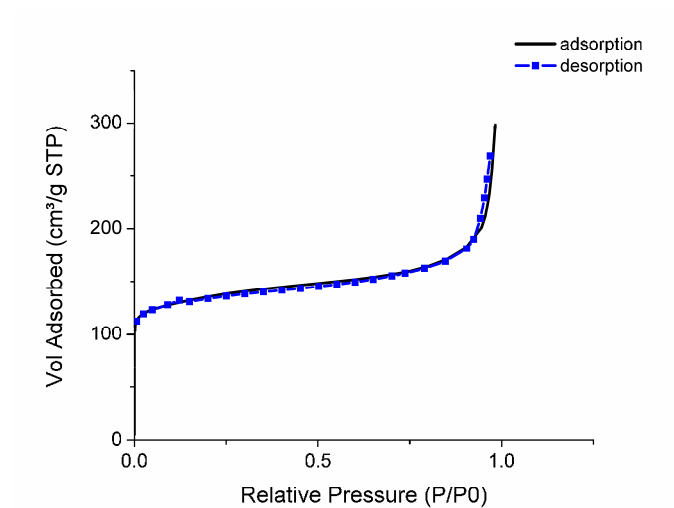


Figure S3: Nitrogen adsorption isotherm of H-GaZSM5.

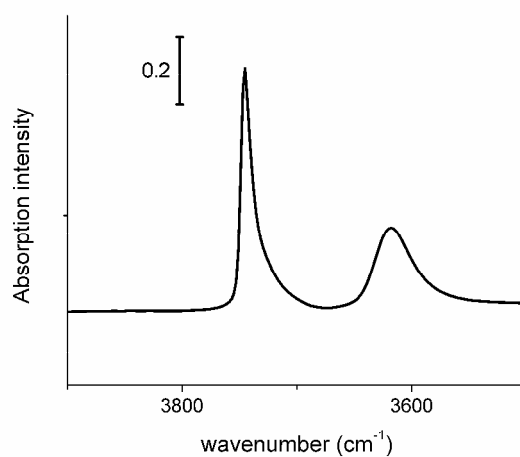


Figure S4: FTIR spectrum of H-Ga_ZSM 5.

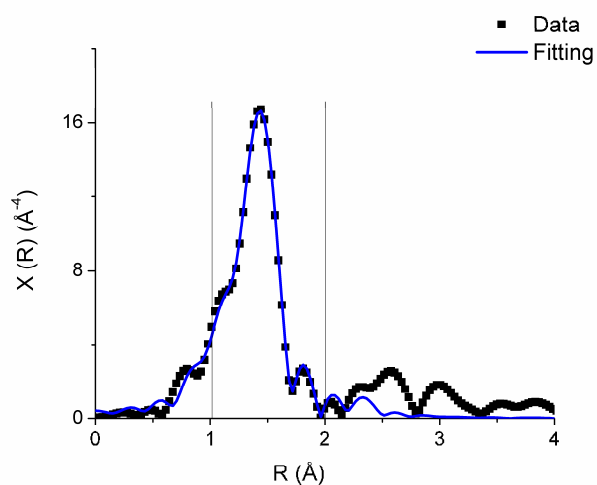


Figure S5: Extended X-ray absorption fine structure of Ga-ZSM5 in NH₄⁺ form in radial space and the fitting curve.

Reference:

- 1- C. Lamberti, G. T. Palomino, S. Bordiga, A. Zecchina, G. Spano, C. O. Arean, *Catalysis Lett.* 63 (1999) 213-216
- 2- K. Al-majnouni, N. Hould, D. Vlachos, R. Lobo, in prepration