

1 **Appendix A. Supplementary data**

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3 **Enhanced toluene adsorption/desorption dynamic performances over USY**
4 **zeolites by aqueous ammonia treatment**

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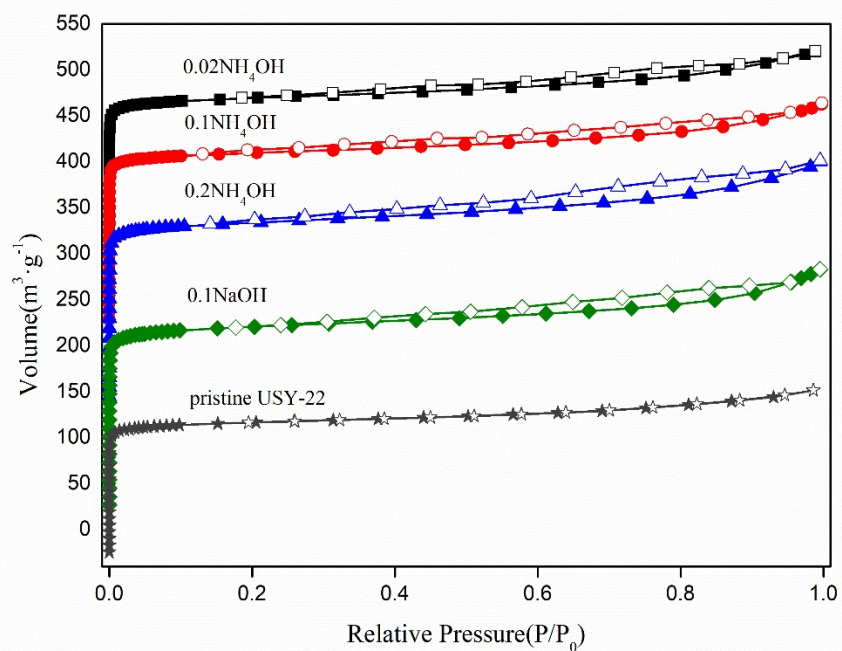
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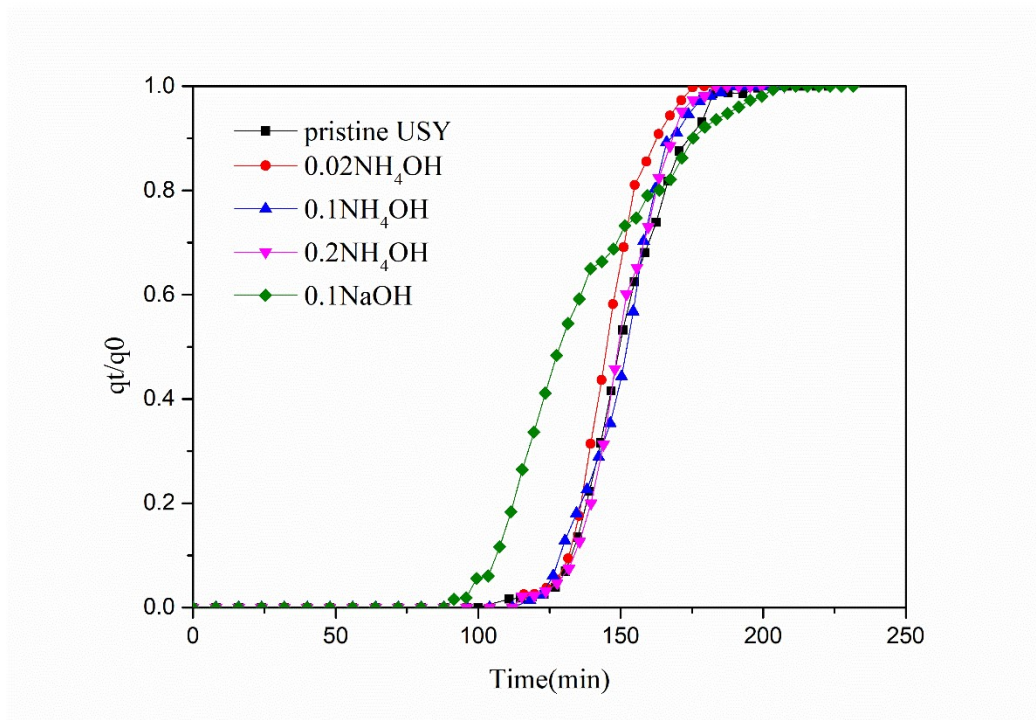
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15 **Fig. S1** Nitrogen adsorption-desorption isotherms of all studied samples.



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17 **Fig. S2** Breakthrough curves of all studied samples under humid condition (RH=30%).

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