

Supplementary Material

Reactive Adsorption of MCM-41 Supported Sulfuric Acid for Anisole from Gaseous Stream

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Note: there were two adsorption products in the experiments. One was 4-methoxybenzenesulfonic acid (I), another was 1-methoxy-4-(4-methoxyphenyl)sulfonylbenzene (II).

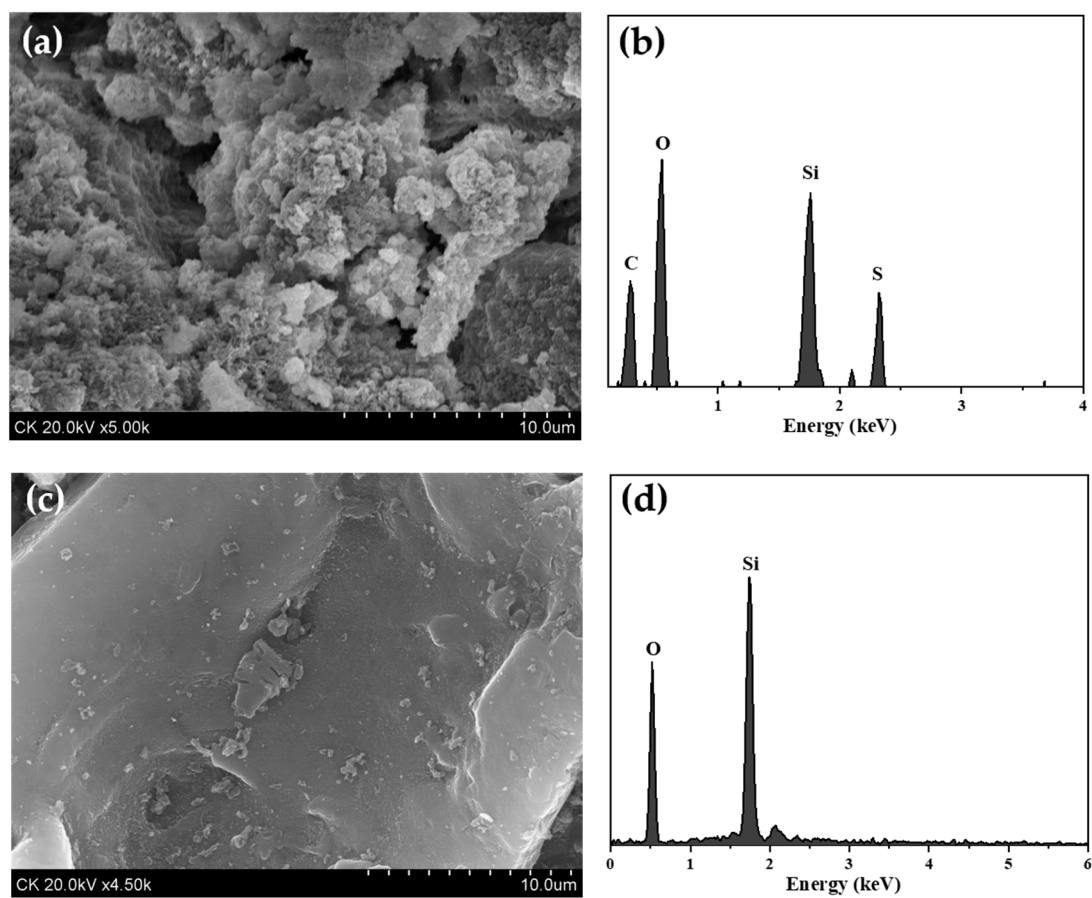


Figure S1. SEM images and EDS spectra of the spent SSA/MCM-41 before (a, b) and after (c, d) desorption.

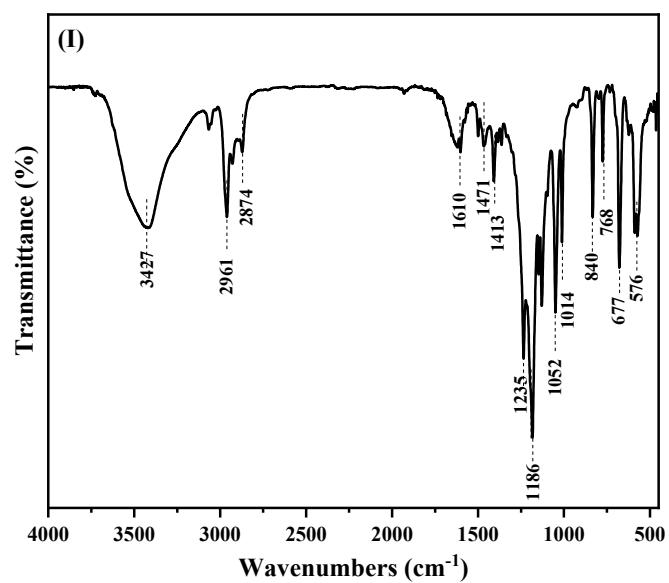


Figure S2. FTIR spectrum of the adsorption product I.

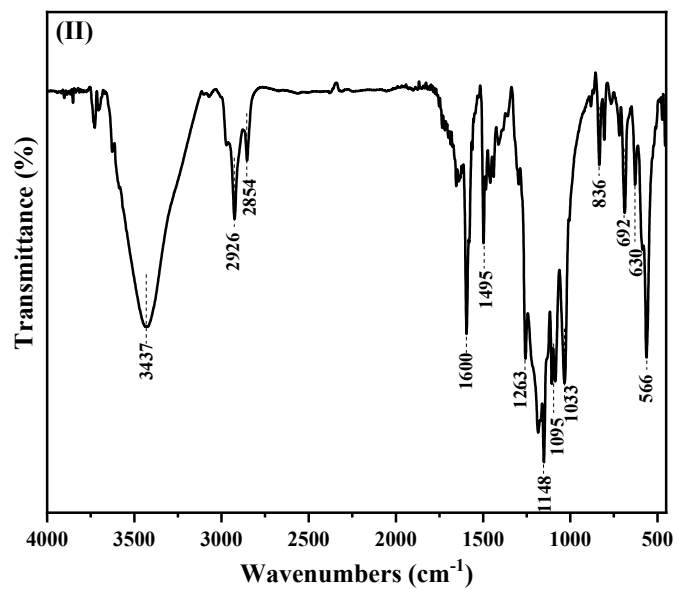


Figure S3. FTIR spectrum of the adsorption product II.

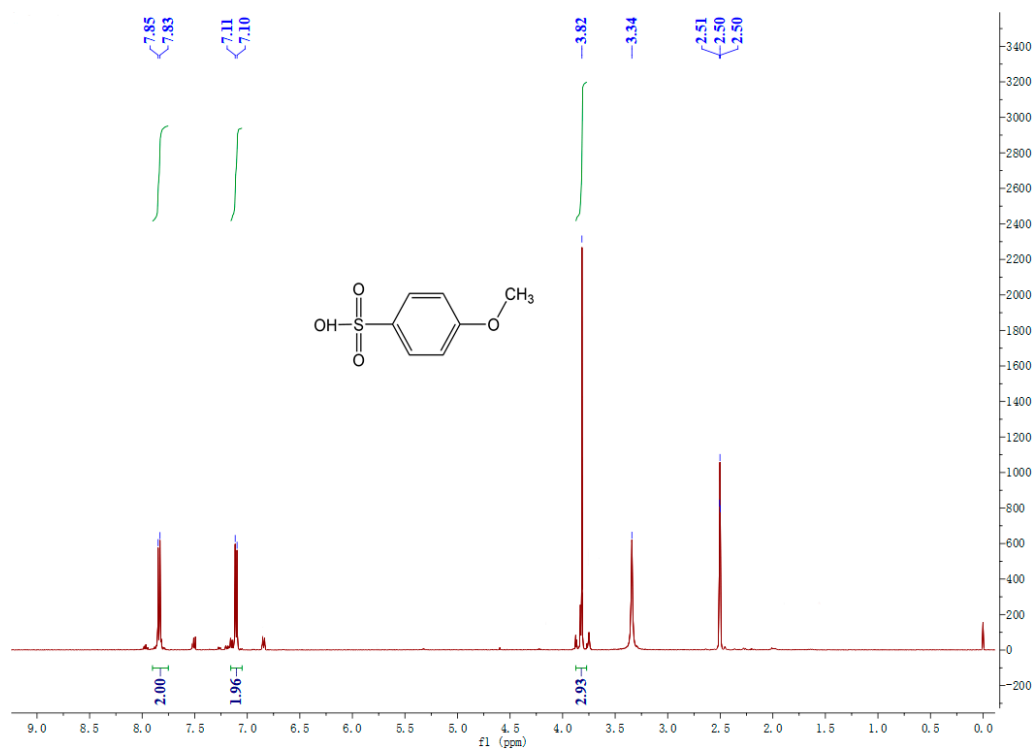


Figure S4. ¹H NMR spectrum of reactive adsorption product I.

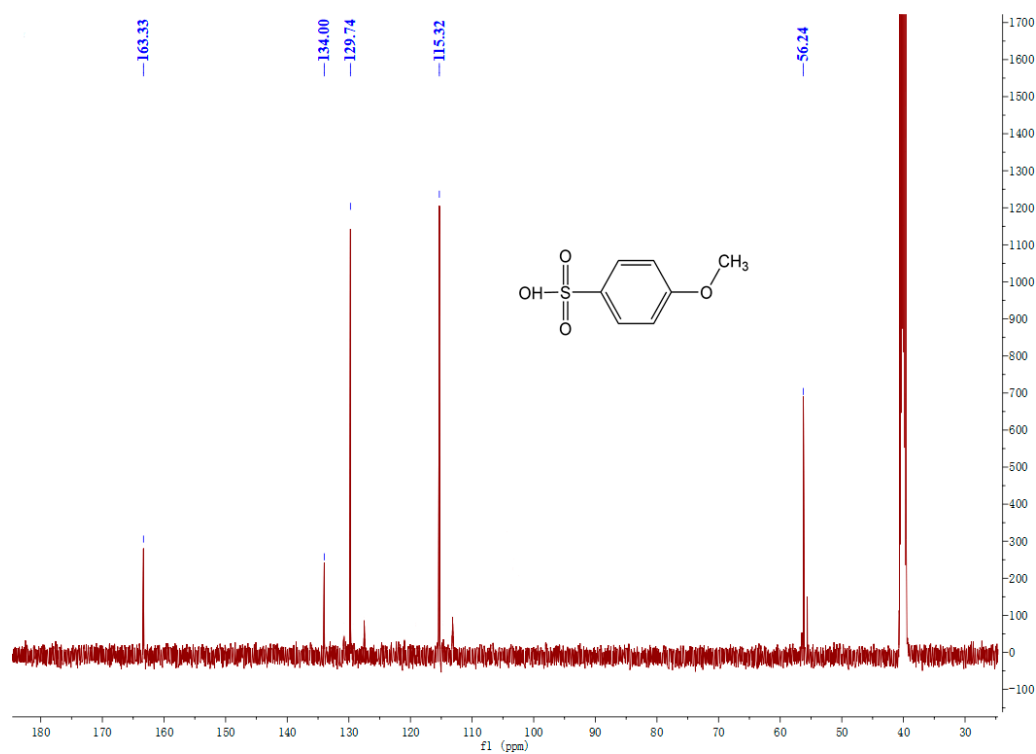


Figure S5. ¹³C NMR spectrum of reactive adsorption product I.

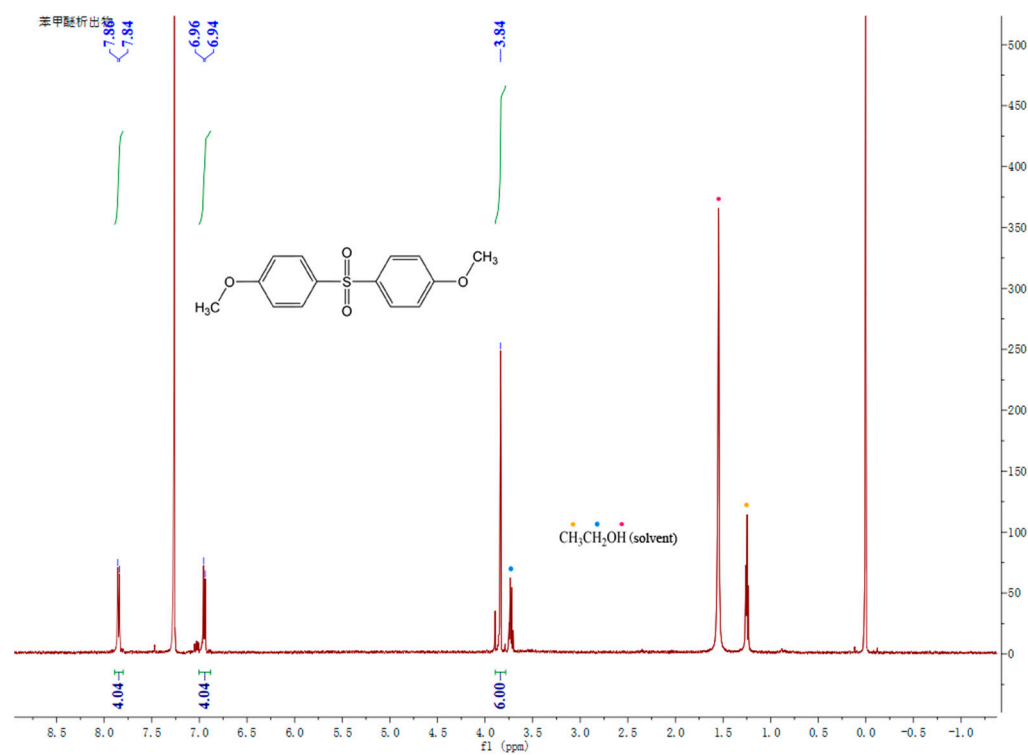


Figure S6. ¹H NMR spectrum of reactive adsorption product II.

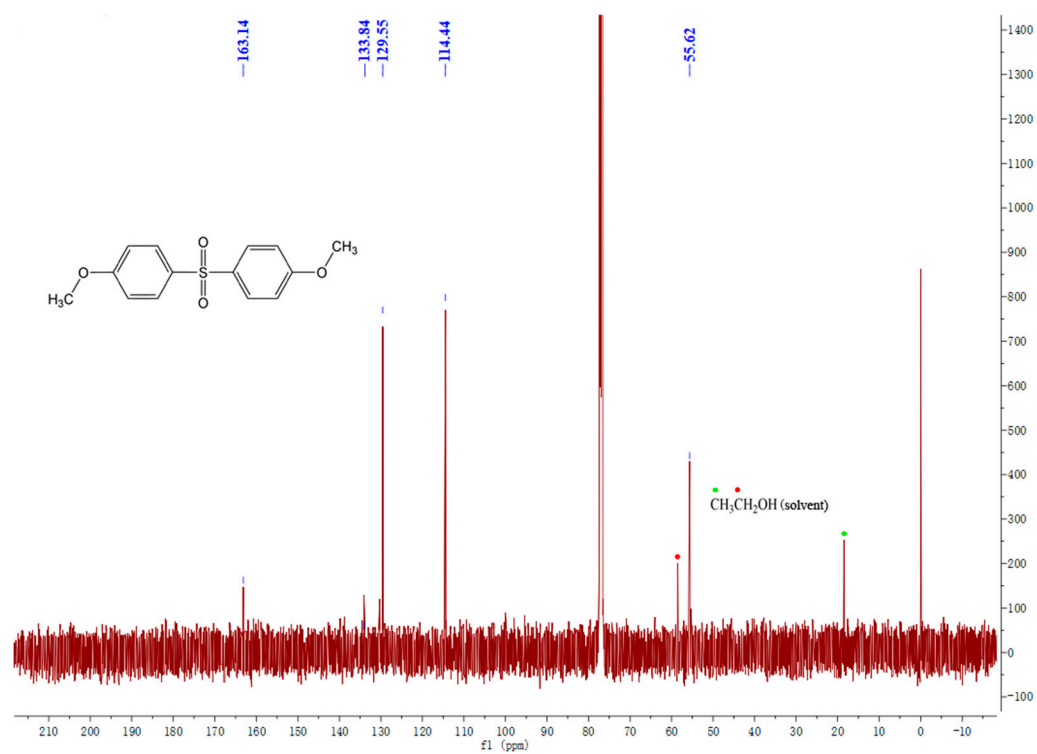


Figure S7. ^{13}C NMR spectrum of reactive adsorption product II.