Supporting Information

for

Nonaqueous Fluoride/Chloride Anion-Promoted Delamination of Layered Zeolite Precursors: Synthesis and Characterization of UCB-2

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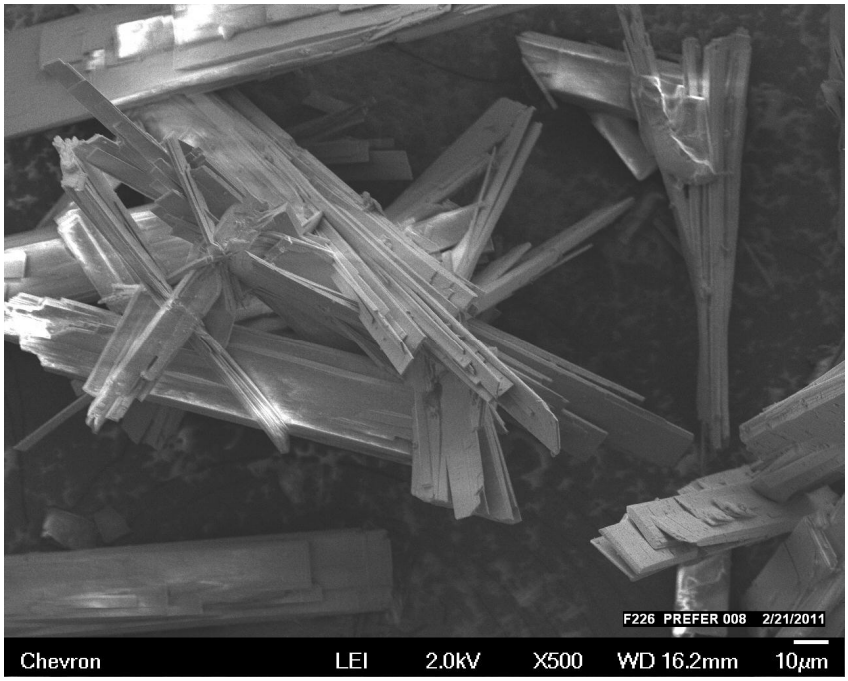

Figure S1. Scanning electron microscopy image characterizing PREFER.

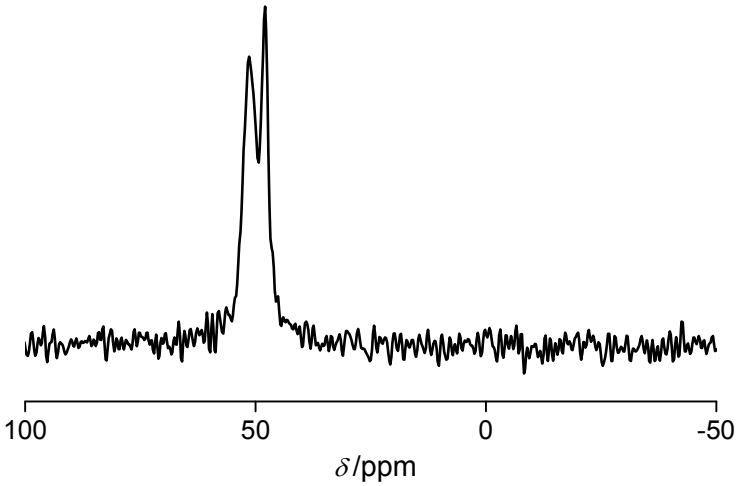

Figure S2. Solid-state ^{27}Al MAS NMR spectrum characterizing as-made UCB-2.

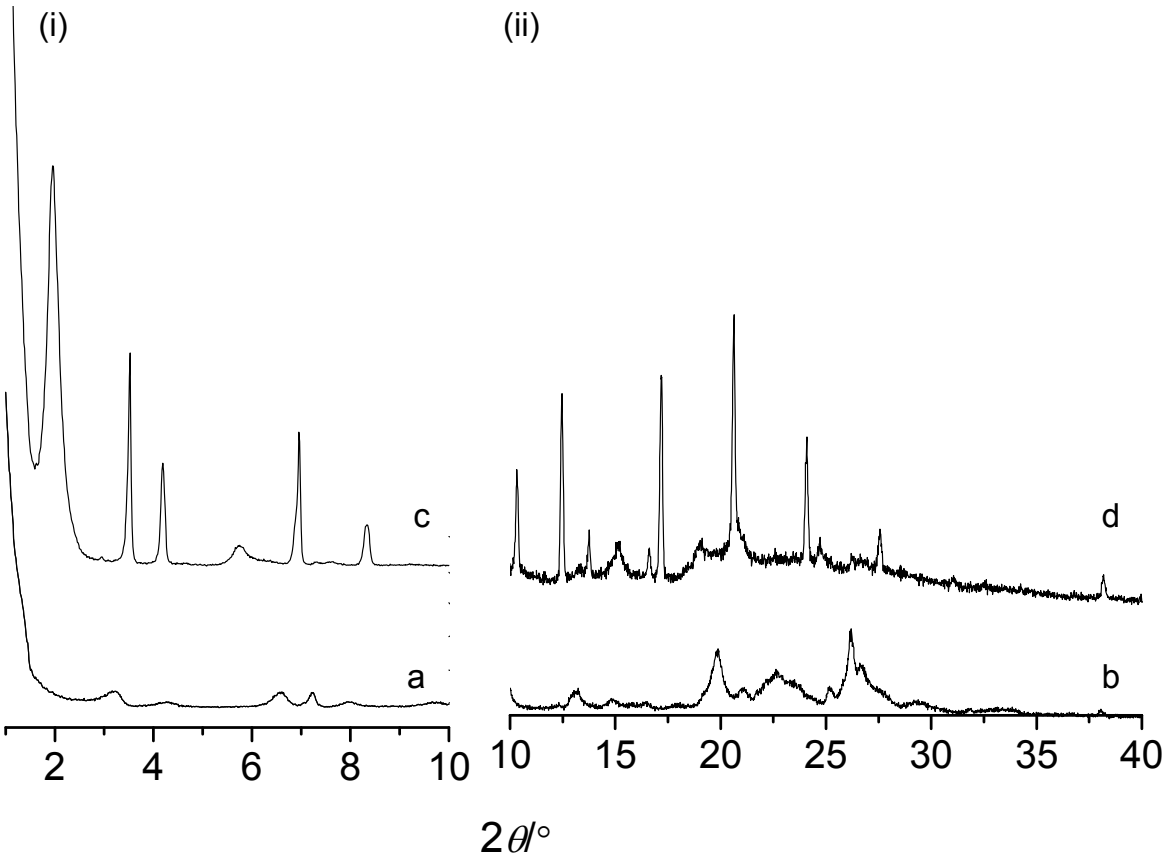

Figure S3. Powder XRD patterns in (i) low-angle region and (ii) high-angle region, respectively, characterizing the following materials: a and b, MCM-22 (P); c and d, swollen materials in *N*,*N*-dimethylformamide.

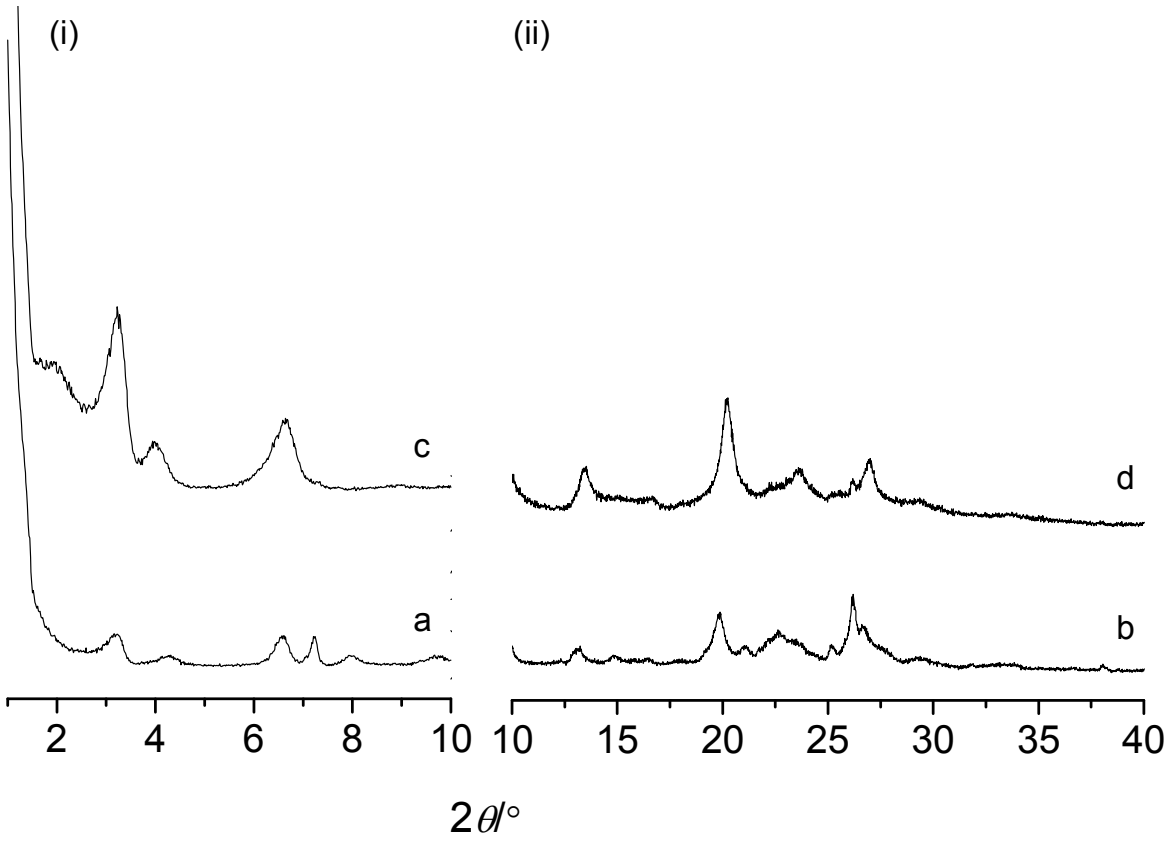

Figure S4. Powder XRD patterns in (i) low-angle region and (ii) high-angle region, respectively, characterizing the following materials: a and b, MCM-22 (P); c and d, acidified materials in *N*,*N*-dimethylformamide.

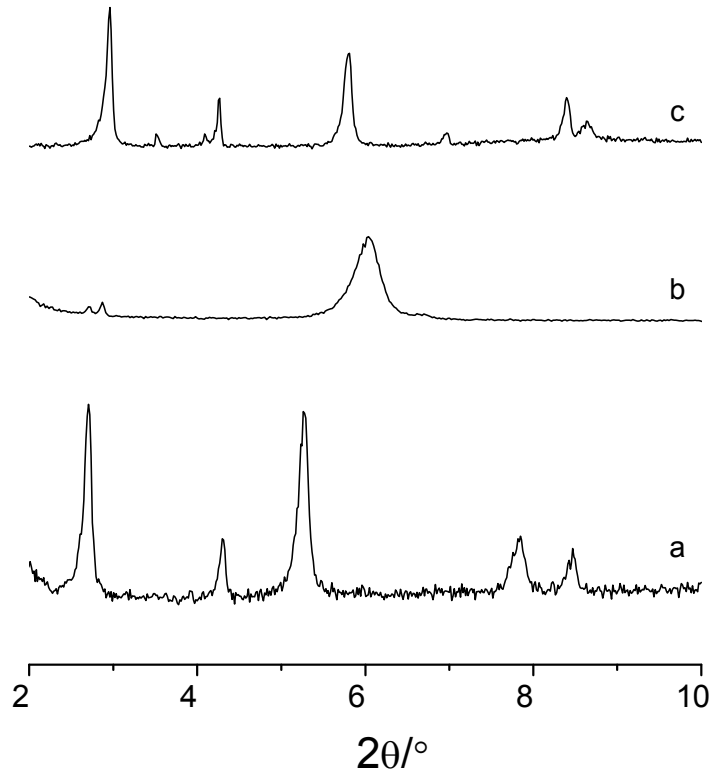

Figure S5. Powder XRD patterns characterizing the following materials: a, swollen PREFER in DMF; b, acidified PREFER; c, material formed by swelling the acidified PREFER.