

# CHEMISTRY

## A **European** Journal

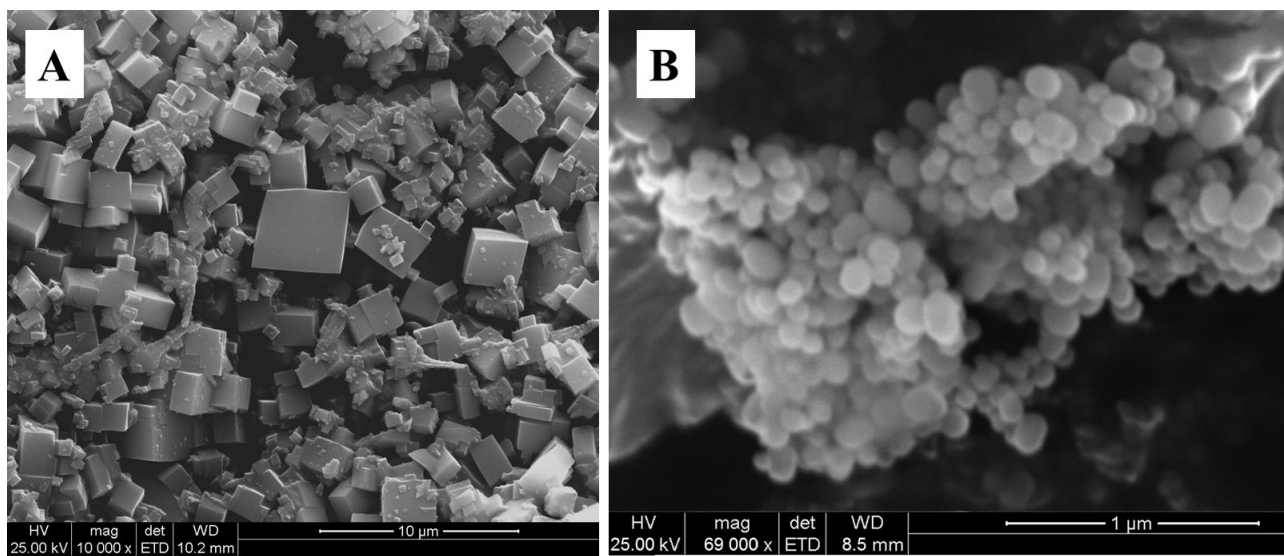
### Supporting Information

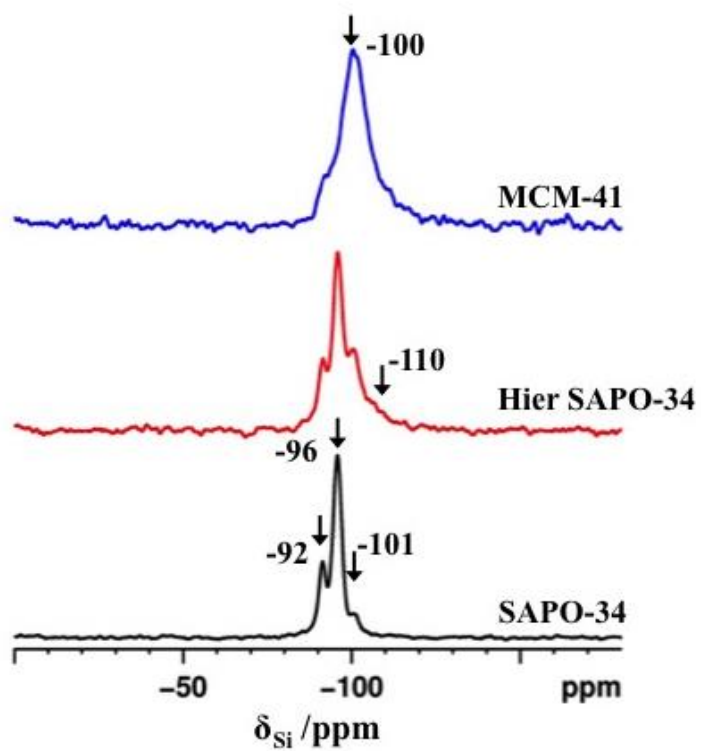
#### **Mesoporous Silica Scaffolds as Precursor to Drive the Formation of Hierarchical SAPO-34 with Tunable Acid Properties**

Ivana Miletto,<sup>[a]</sup> Geo Paul,<sup>[a]</sup> Stephanie Chapman,<sup>[b]</sup> Giorgio Gatti,<sup>[a]</sup> Leonardo Marchese,<sup>[a]</sup> Robert Raja,<sup>[b]</sup> and Enrica Gianotti<sup>\*[a]</sup>

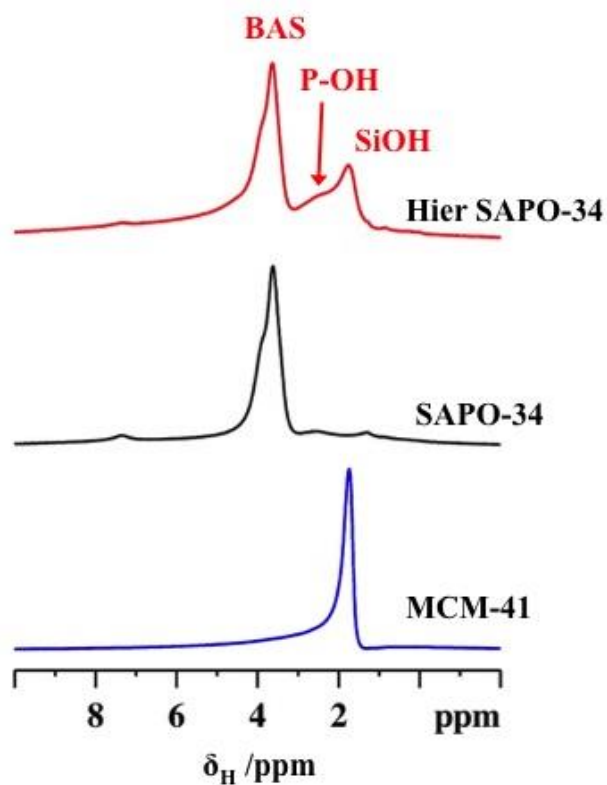
chem\_201701978\_sm\_miscellaneous\_information.pdf

**Fig. S1** – Representative SEM images of microporous SAPO-34 (A) and MCM-41 nanoparticles (B).

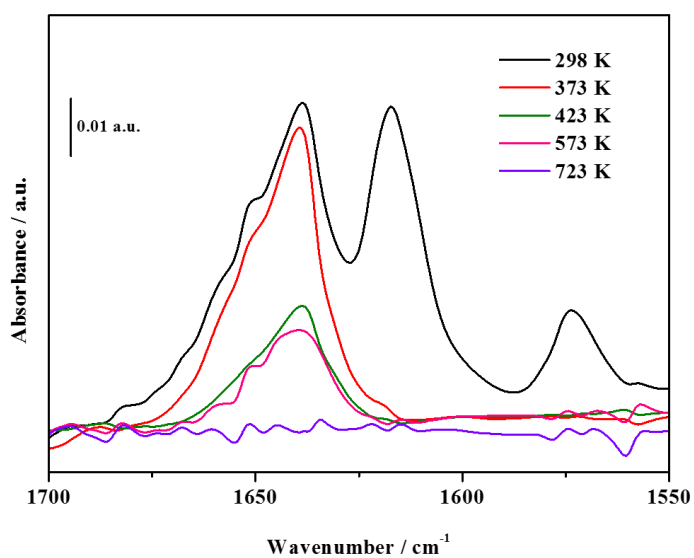




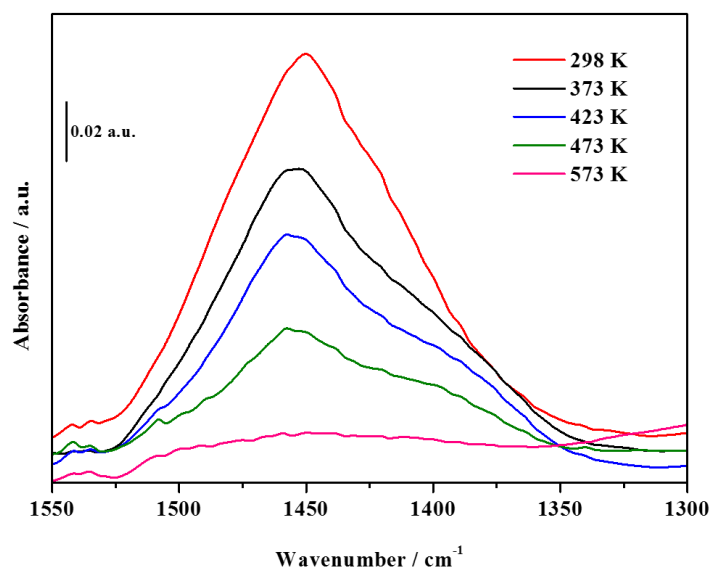
**Fig. S2** -  $^{29}\text{Si}$  CP MAS NMR spectra of calcined SAPO-34 (black), hierarchical SAPO-34 (red) and calcined MCM-41 (blue).



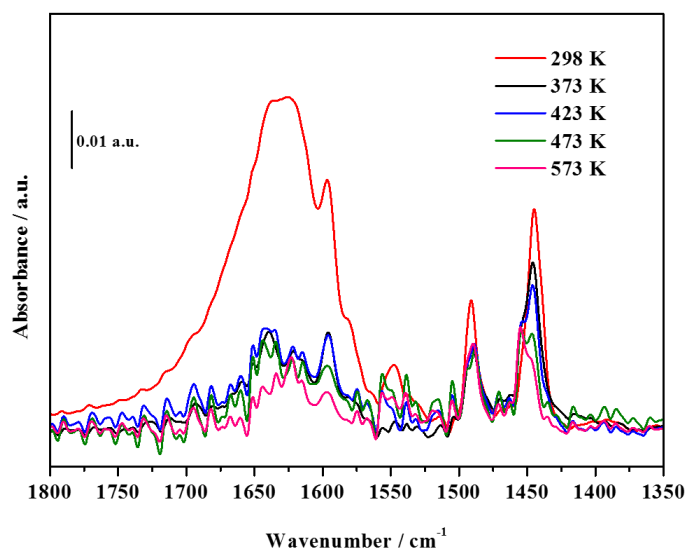
**Fig. S3** -  $^1\text{H}$  SS MAS NMR spectra of calcined hierarchical SAPO-34 (red), SAPO-34 (black) and calcined MCM-41 (blue).



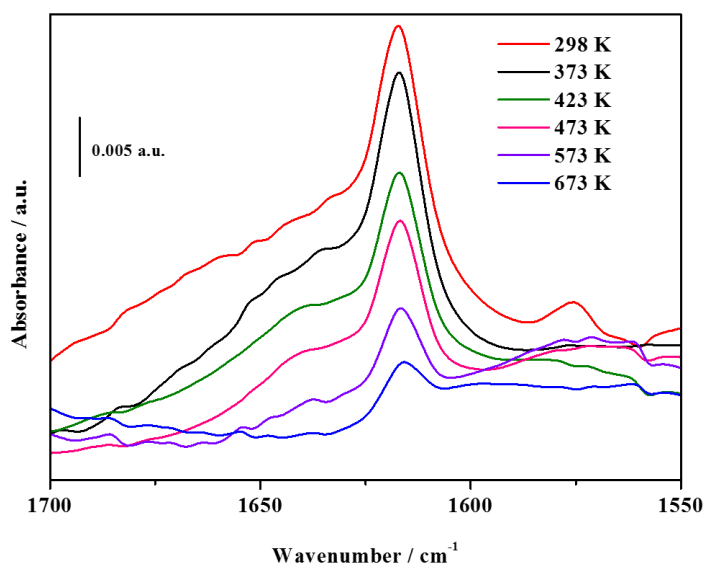
**Fig. S4** - FTIR spectra of 2,4,6-TMP desorption from HierSAPO-34 at increasing temperatures.



**Fig. S5** - FTIR spectra of ammonia desorption from HierSAPO-34 at increasing temperatures.



**Fig. S6** - FTIR spectra of pyridine desorption from HierSAPO-34 at increasing temperatures.



**Fig. S7** - FTIR spectra of 2,6-dTBP desorption from HierSAPO-34 at increasing temperatures.