Supplementary Material (ESI) for Journal of Materials Chemistry

Supplementary information

Structural investigations and acidic properties of high surface area pyrochlore aluminium hydroxyfluoride

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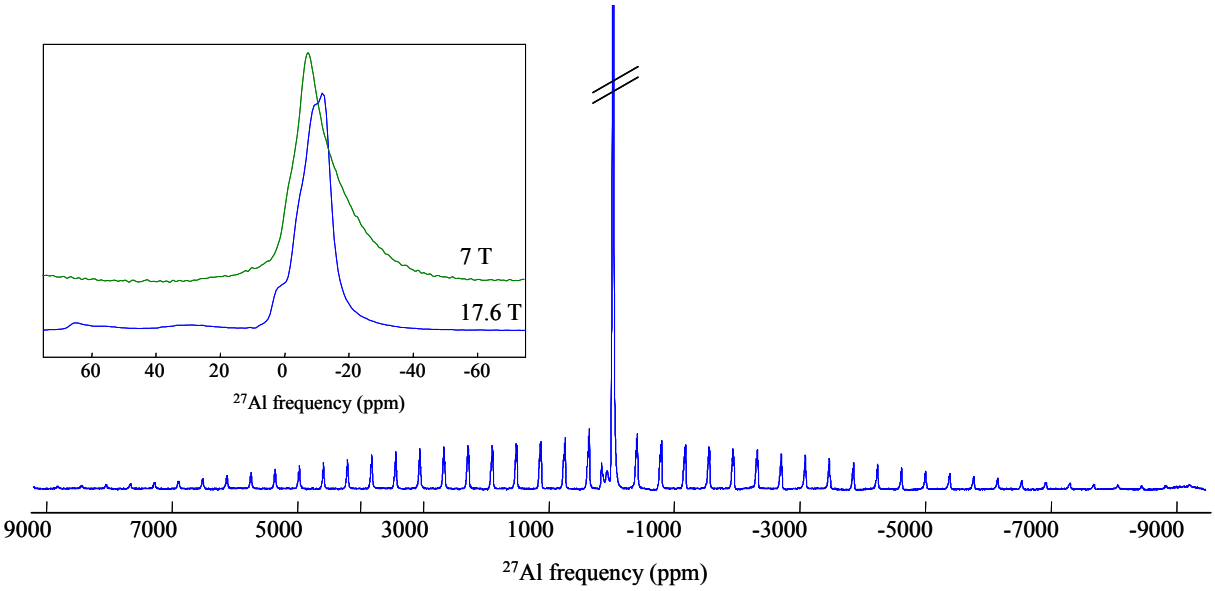

Figure S1. ^{27}Al MAS (30 kHz) one pulse spectrum of the pyrochlore $AlF_{1.8}(OH)_{1.2}.0.3H_2O$ recorded at 17.6 T. The central transitions of the spectra recorded at 17.6 and 7 T are presented in the inset.

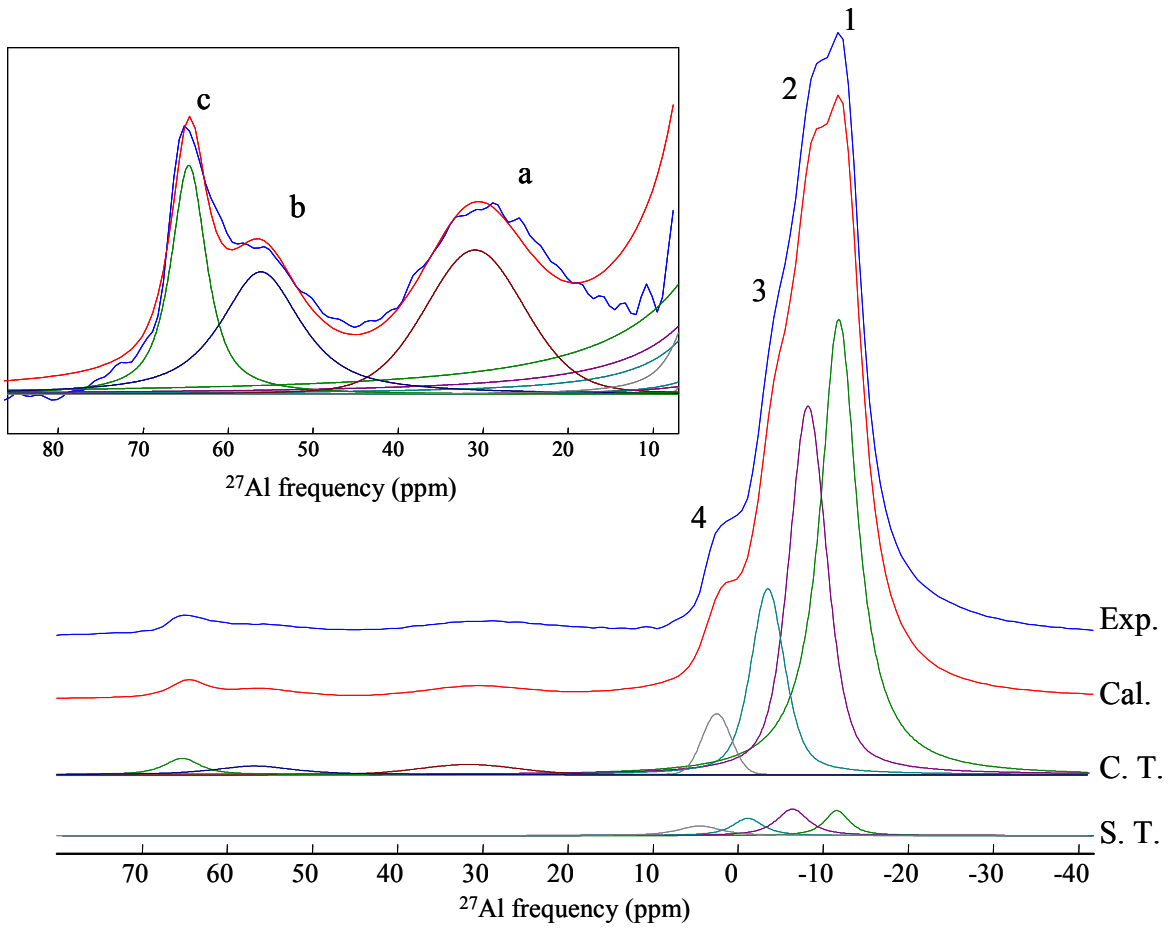

Figure S2. Experimental (blue) and calculated (red) central line of the ^{27}Al MAS NMR spectrum of the pyrochlore $AlF_{1.8}(OH)_{1.2}.0.3H_2O$. The deconvolution, achieved using four contributions, takes into account the N = 0 band of both the satellite transitions <3/2> (S. T.) and the central transition <1/2> (C. T.). Resonances a, b and c were reconstructed using Gaussian lines to extract isotropic chemical shifts.

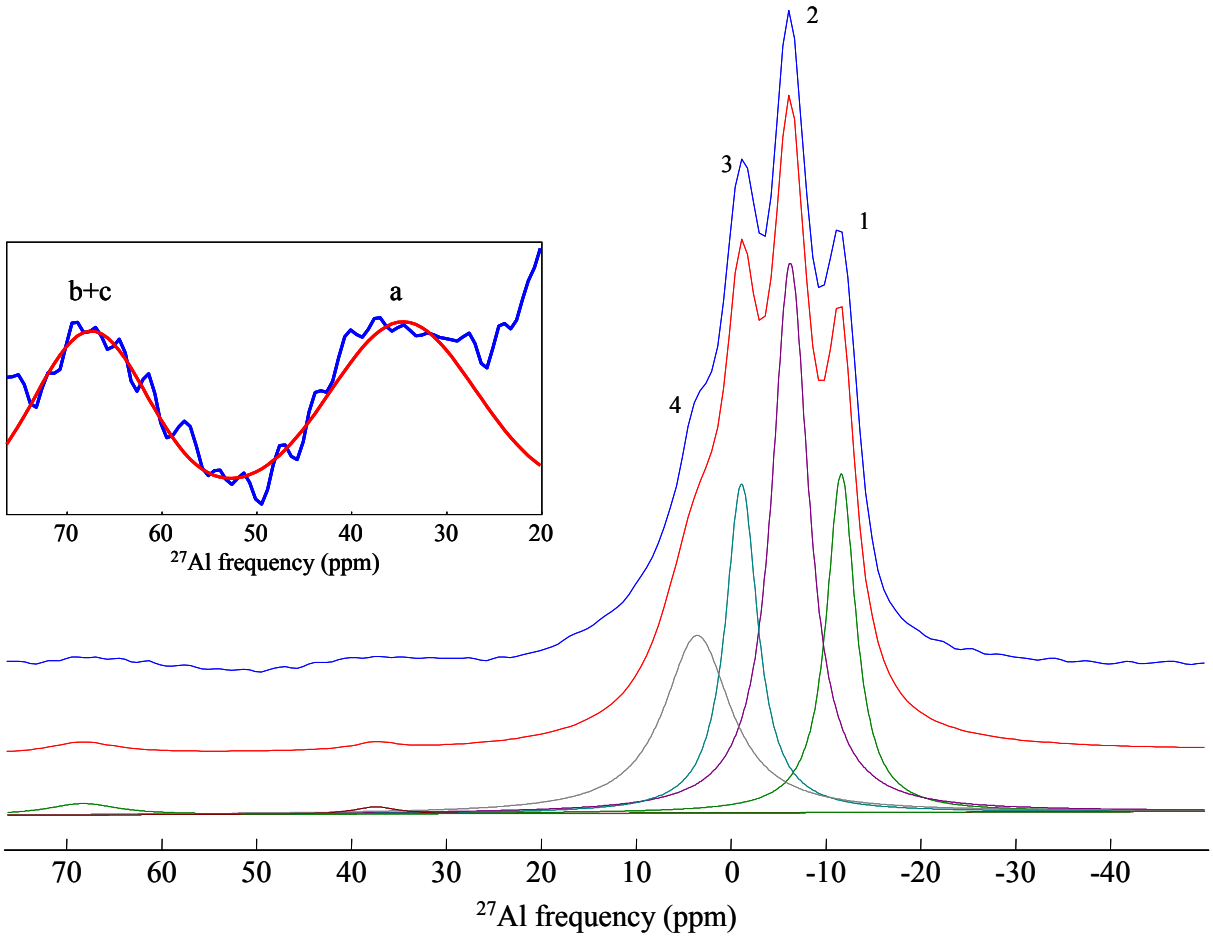

Figure S3. Experimental (blue) and calculated (red) full projection of the TOP reconstruction of the ^{27}Al MAS NMR spectrum of the pyrochlore $AlF_{1.8}(OH)_{1.2}.0.3H_2O$. The deconvolution is achieved using Gaussian contributions.