

# Supplementary Information

## Phase transformation of a rare-earth Anderson polyoxometalate at low temperature

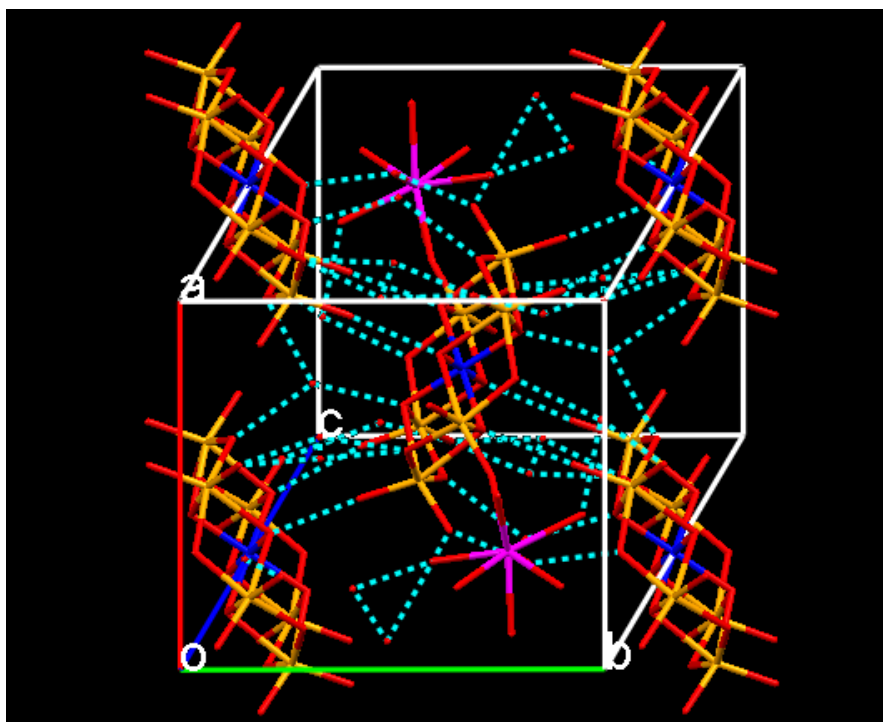
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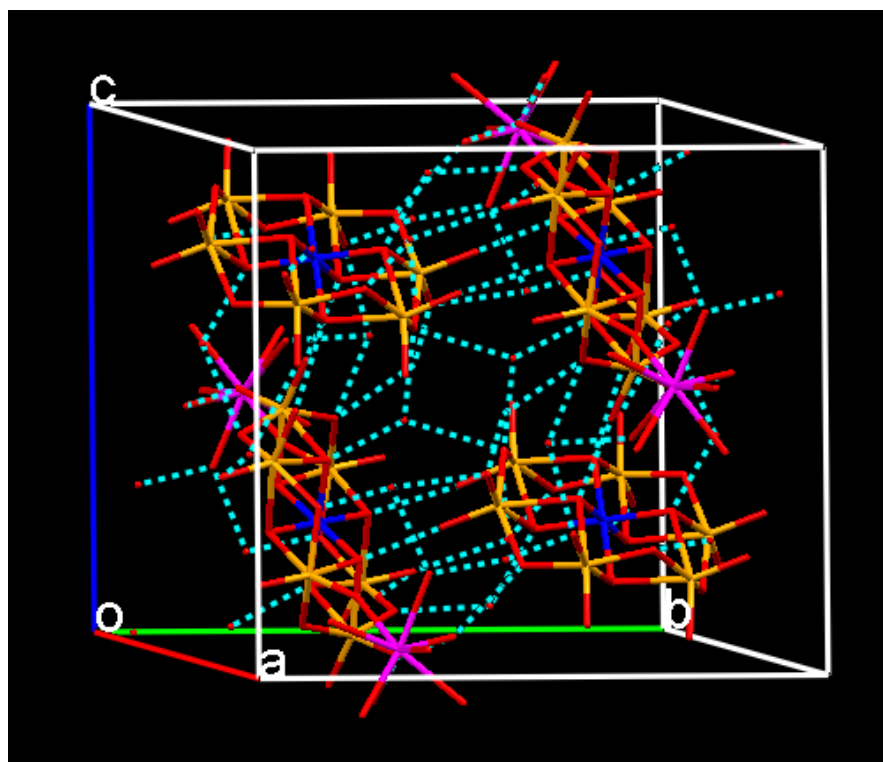
**Fig. S1** View of complex hydrogen bonds for (a) phase **1** and (b) phase **1'**.

**Fig. S2** XRD patterns of (i) the resulted samples at the first water-loss step of TGA; (ii) the resulted samples at the second water-loss step of TGA and (iii) rehydrated samples.

**Fig. S3** The comparison of calculated XRD patterns between **1** and **1'**.

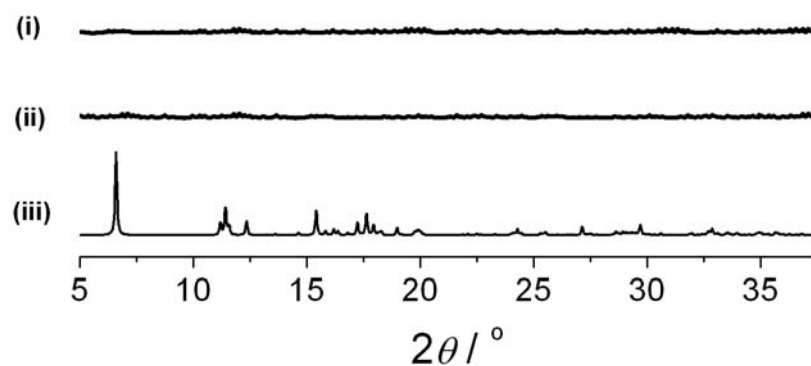


(a)

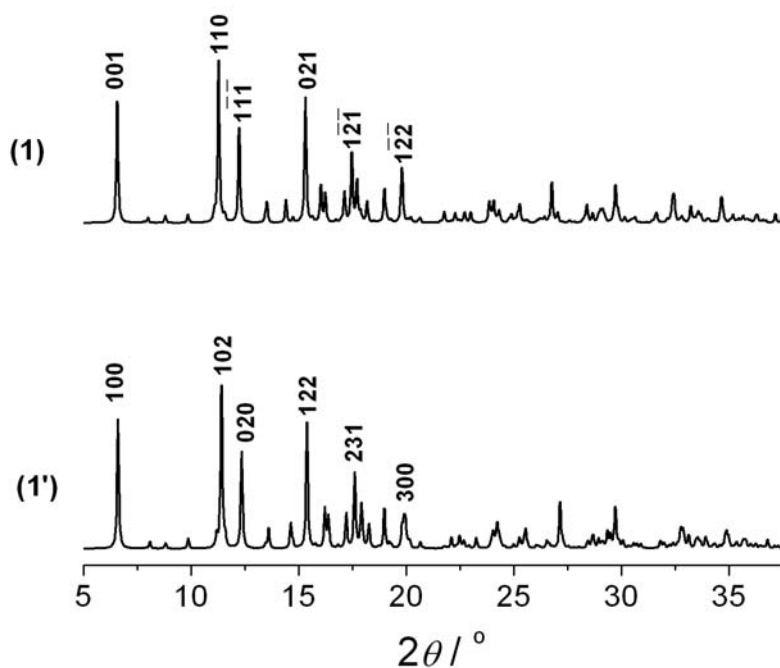


(b)

**Fig. S1** View of complex hydrogen bonds for (a) phase **1** and (b) phase **1'**.



**Fig. S2** XRD patterns of (i) the resulted samples at the first water-loss step of TGA; (ii) the resulted samples at the second water-loss step of TGA and (iii) rehydrated samples.



**Fig. S3** The comparison of calculated XRD patterns between **1** and **1'**.