The pH-controlled hydrothermal synthesis and crystal structures of two zinc N,N’-piperazinebis(methylene phosphonate) frameworks

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Supplementary Information

Figure S1.

Experimental X-ray powder diffraction pattern for phase I, and the pattern simulated on the basis of the crystal structure.
Figure S2.

Experimental X-ray powder diffraction pattern for phase II, and the pattern simulated on the basis of the crystal structure.
Figure S3.

Powder X-ray diffraction data for as-made (hydrated) and dehydrated Phase I

![Graph showing X-ray diffraction data for Phase I hydrate and dehydrate](image-url)
Figure S4. $^{31}$P MASNMR spectra for phase II (top) and phase I (below).