

Electronic Supplementary Information

First bisphosphonate hydrogelators: potential composers of biocompatible gels

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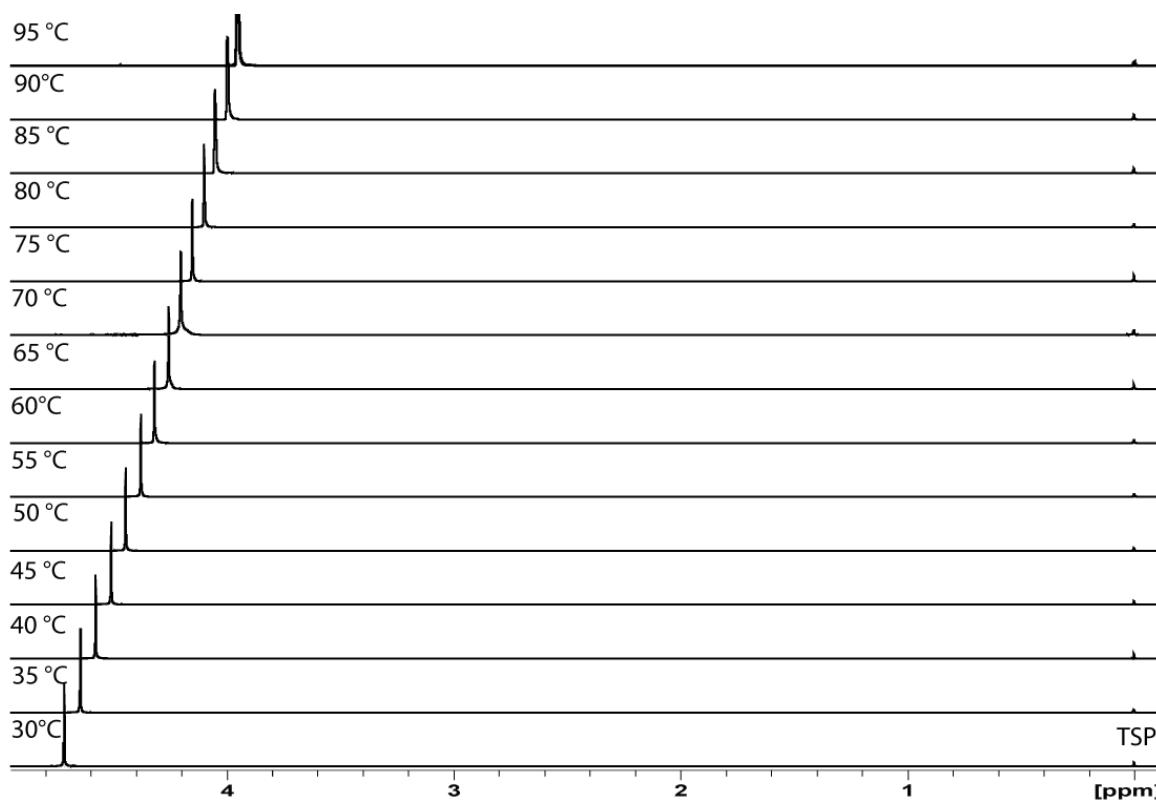


Fig. S1 VT ¹H NMR spectra of D₂O, TSP as a reference.

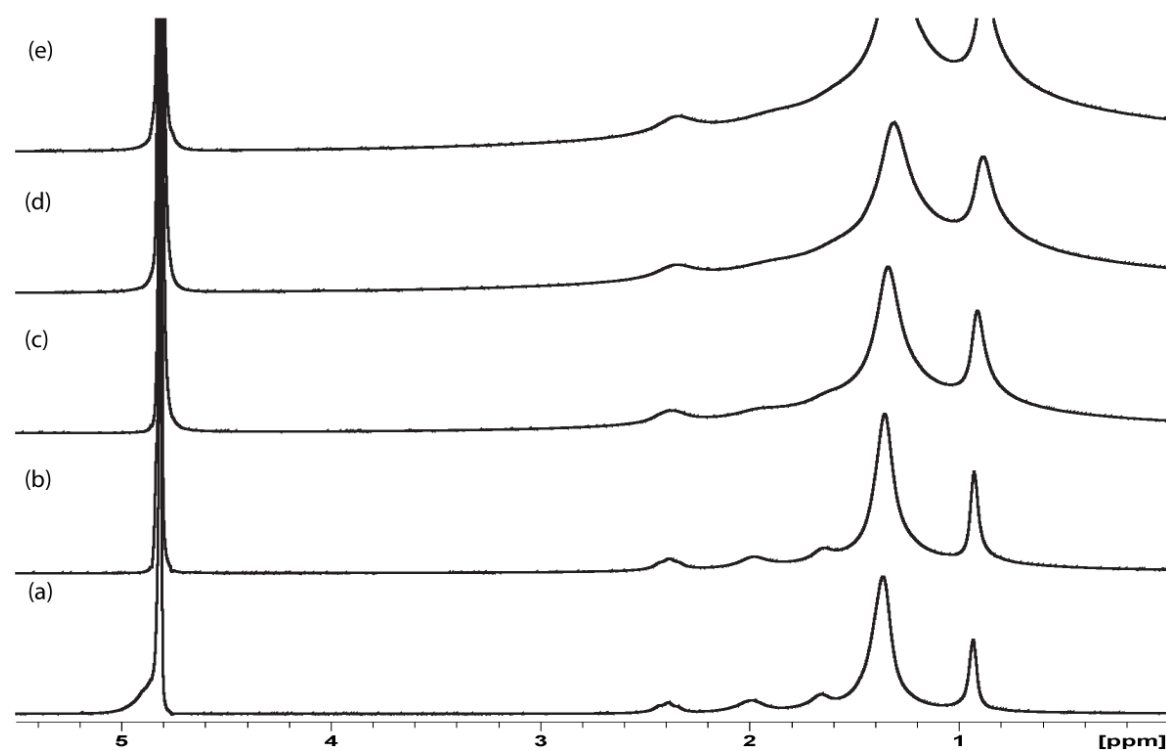


Fig. S2 Concentration-dependent ^1H NMR of **1** in D_2O . (a) 1 %, (b) 2 %, (c) 3 %, (d) 4 %, (e) 5 %.

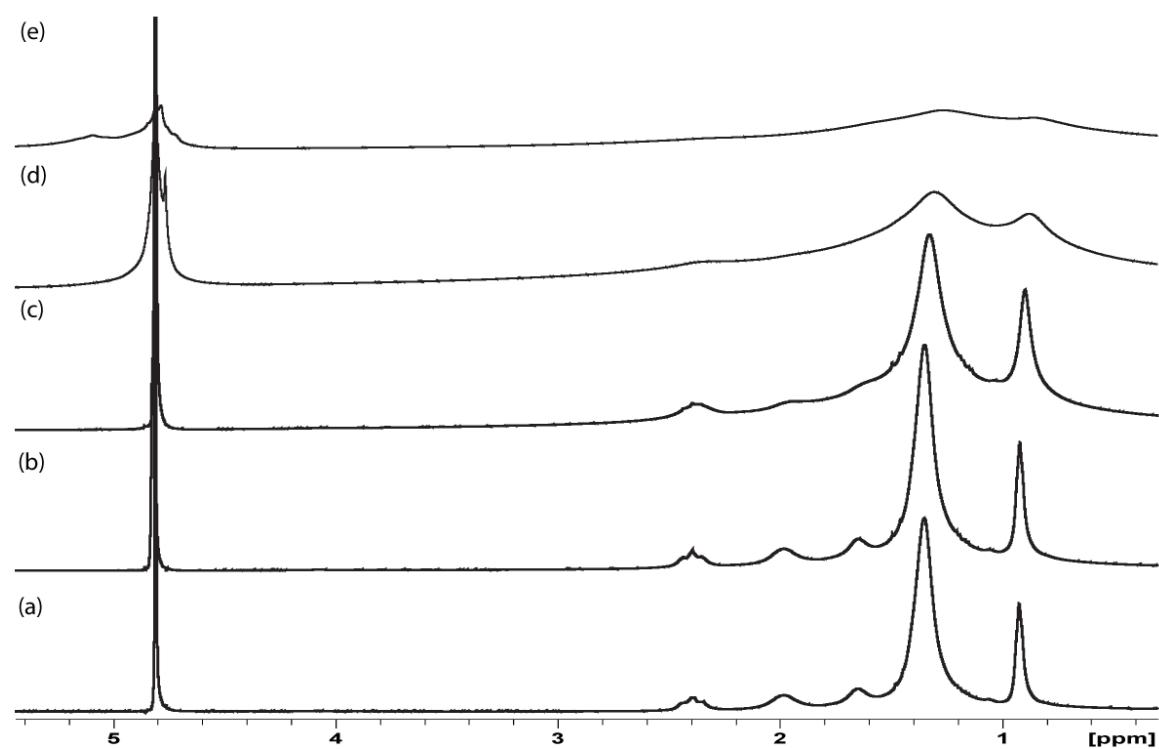


Fig. S3 Concentration-dependent ^1H NMR of **2** in D_2O . (a) 1 %, (b) 2 %, (c) 3 %, (d) 4 %, (e) 5 %.

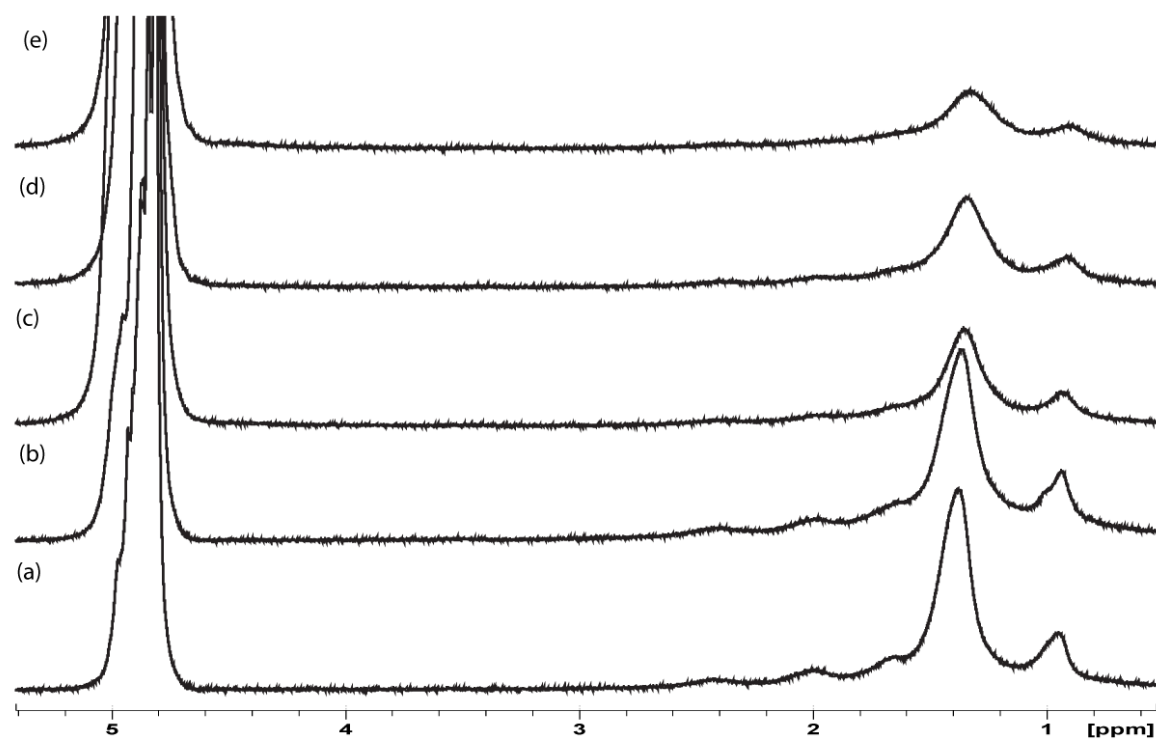


Fig. S4 Concentration-dependent ^1H NMR of **3** in D_2O . (a) 1 %, (b) 2 %, (c) 3 %, (d) 4 %, (e) 5 %.

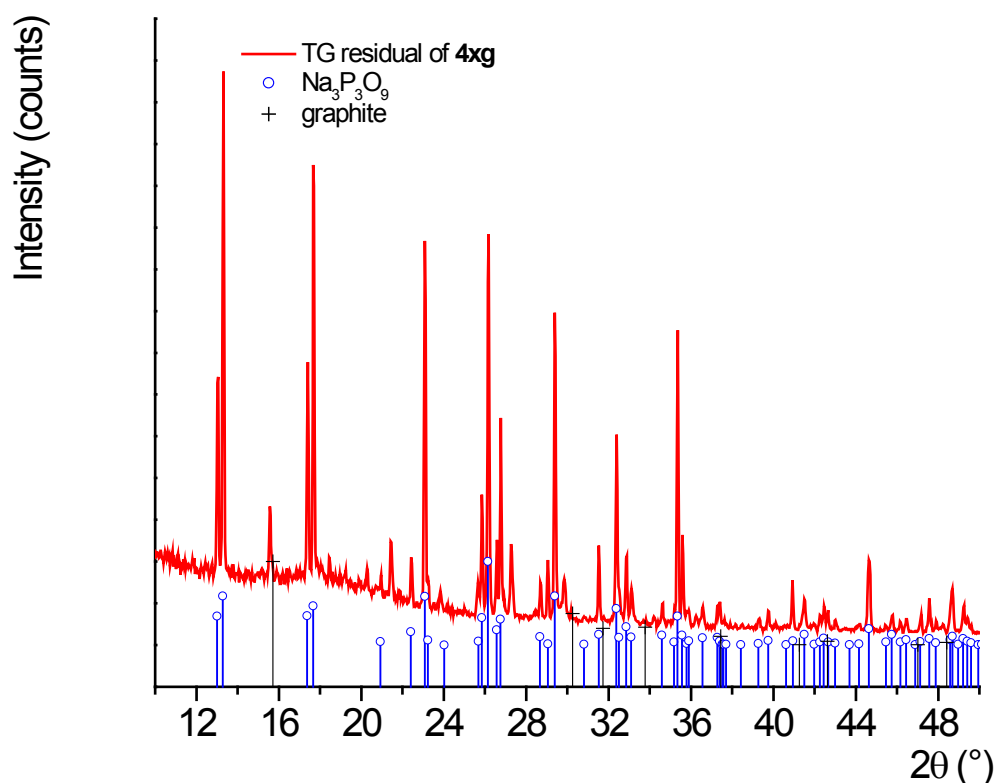


Fig. S5 XRD pattern of TG residue of **4xg**. The Bragg peak positions characteristic to sodium metaphosphate ($\text{Na}_3\text{P}_3\text{O}_9$) are marked by blue (°) with drop lines, and the graphite peaks by black (+), respectively. Sodium metaphosphate is clearly the main component of the sample, whereas graphite is as a minor component.

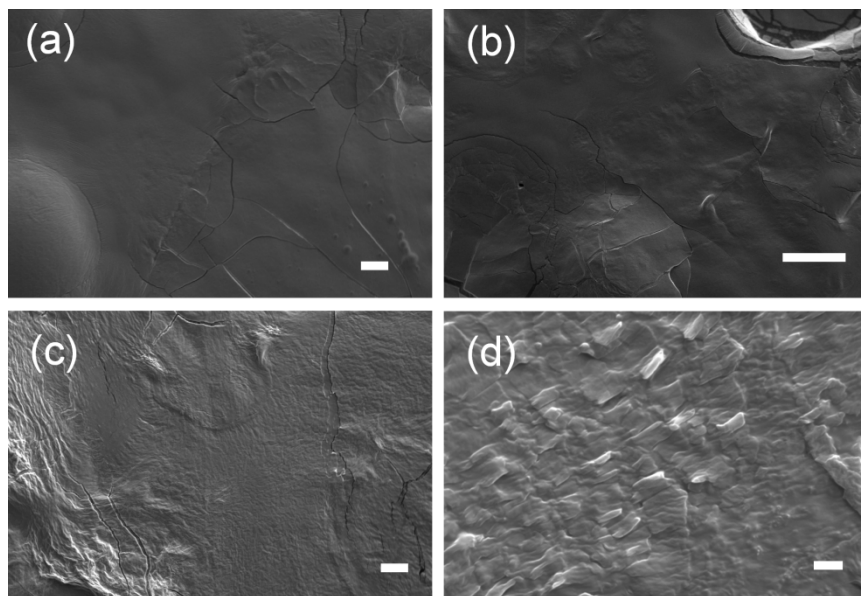


Fig. S6 SEM micrographs of (a) xerogel of **3**, (b) *in situ*-prepared material of **3**, (c), (d) xerogel of **4**. The scale bars are (a) 40 μm , (b) 100 μm , (c) 40 μm , (d) 2 μm .