Electronic Supplementary Information (ESI)

Amorphous Calcium Carbonate Monohydrate Containing a Defect Hydrate Network by Mechanochemical Processing of Mono-hydrocalcite using Ethanol as Auxiliary Solvent

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Table of Contents

Figure S1.	Powder X-ray diffraction pattern of monohydrocalcite ball-milled in	S2
	cyclohexane.	
Figure S2.	¹³ C SP NMR spectrum of crystalline monohydrocalcite.	S3
Figure S3.	¹³ C CP NMR spectra of crystalline monohydrocalcite.	S4

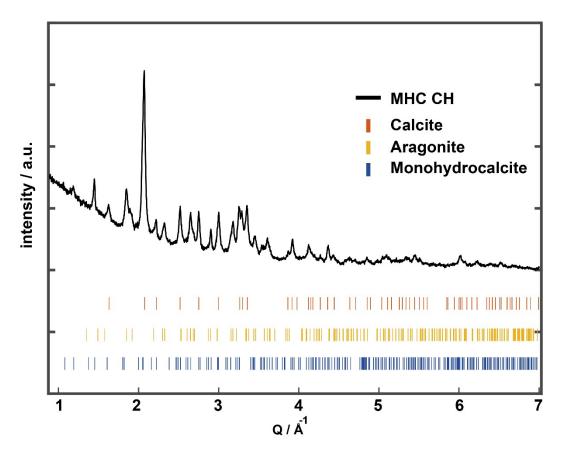


Figure S1. Powder X-ray diffraction pattern of monohydrocalcite ball-milled in cyclohexane. Different from grinding in ethanol, no complete amorphization occurs and additionally aragonite and calcite are formed.

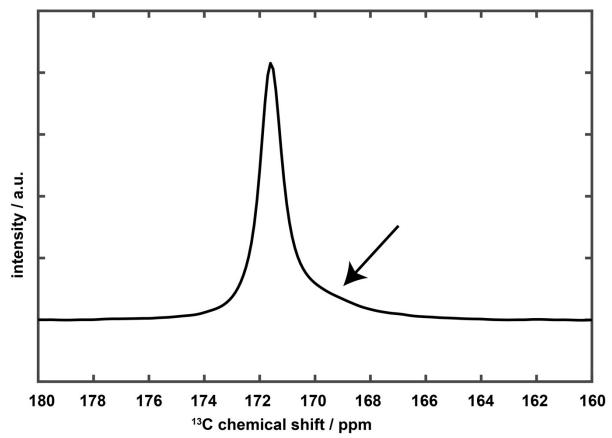


Figure S2. ¹³C SP NMR spectrum of ¹³C enriched monohydrocalcite. The spectrum shows a small asymmetry in the peak shape, probably due to minor amorphous impurities (indicated by the arrow).

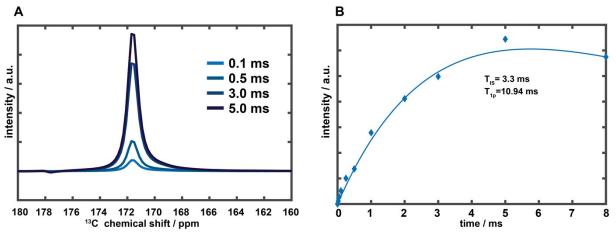


Figure S3. ¹³C CP NMR spectra (A) of monohydrocalcite at different contact times and the corresponding fit (B) according to the I-S classic model (see main text).