

Supporting Information
(References corresponds to those cited in the main text)

**Phase evolution and textural changes during the direct
conversion and storage of CO₂ to produce calcium carbonate
from calcium hydroxide**

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The contents of the supporting information are listed below:

- **Figure S1.** Changes in the characteristic peaks of Ca(OH)_2 ($d = 4.90 \text{ \AA}$, $q = 1.28 \text{ \AA}^{-1}$, h k l: (0 0 1)) and the integrated peak intensity are represented in (a) and (b) respectively [40]. The relative integrated intensity of calcium hydroxide represented in (b) is the integrated intensity of the characteristic peak at a given temperature normalized to the integrated intensity at 30 °C. Vertical bars in (b) represent estimated 5% standard deviation uncertainties.

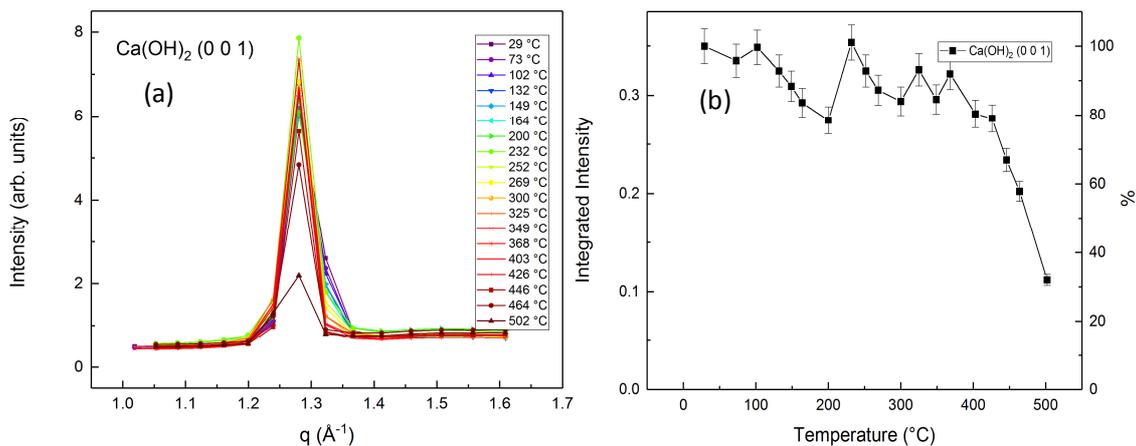


Figure S1. Changes in the characteristic peaks of Ca(OH)_2 ($d = 4.90 \text{ \AA}$, $q = 1.28 \text{ \AA}^{-1}$, h k l: (0 0 1)) and the integrated peak intensity are represented in (a) and (b) respectively [40]. The relative integrated intensity of calcium hydroxide represented in (b) is the integrated intensity of the characteristic peak at a given temperature normalized to the integrated intensity at $30 \text{ }^{\circ}\text{C}$. Vertical bars in (b) represent estimated 5% standard deviation uncertainties.