

Supplementary Materials

The Influence of Air Nanobubbles on Controlling the Synthesis of Calcium Carbonate Crystals

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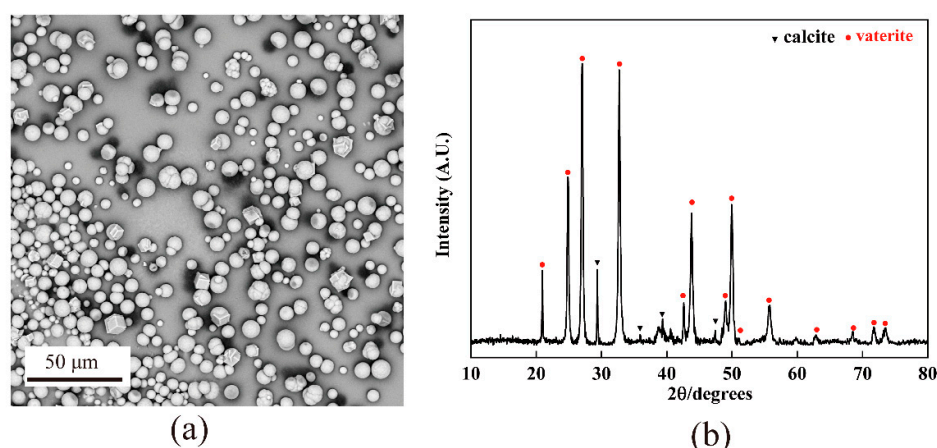


Figure S1. SEM images and XRD parts of vaterite obtained

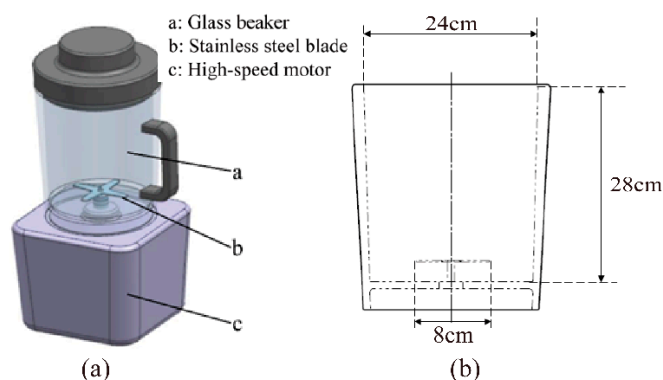


Figure S2. The schematic diagram of the machine for producing bulk nanobubbles(a), and the size of the stain-less-steel blade and beaker (b).

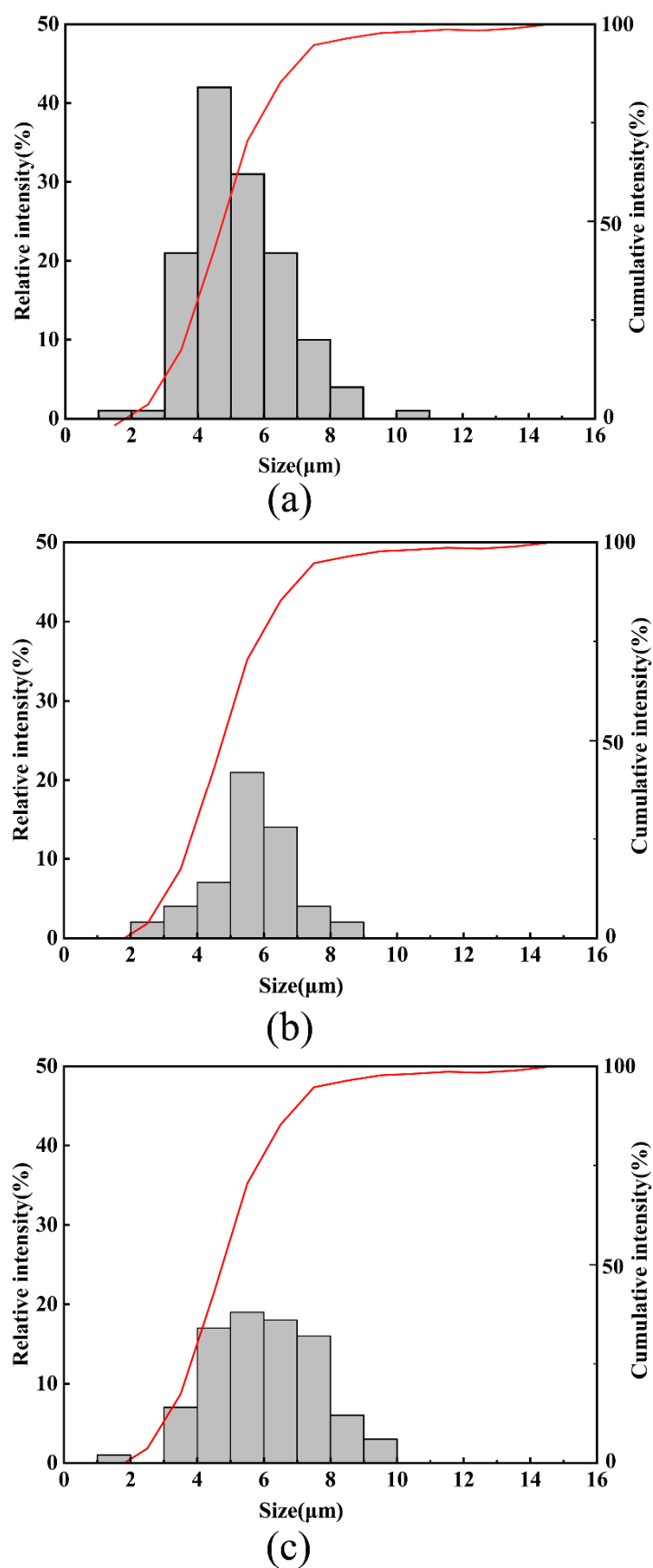


Figure S3. Size distribution of calcite after 4 hours (a), size distribution of calcite after 1 hours, and size distribution of vaterite after 1 hours prepared in 2.96×10^8 particles/mL of nanobubbles water.

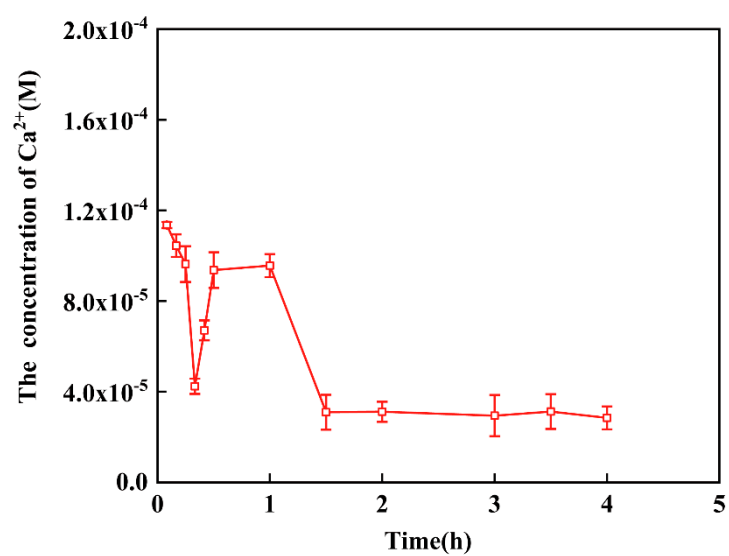


Figure S4. The concentration of Ca^{2+} depending on the time in the solution filtrated at $0.45 \mu\text{m}$ after the reaction to prepare CaCO_3