Transformation of Amorphous Calcium Carbonate in Air
- The Role of Additives and Humidity

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ACC pellet transformed into calcite at ~40 % RH (ambient humidity)

ACC pellet transformed into calcite at 75 % RH (adjusted in desiccator)

Conclusion
Enhanced humidity increased the pore size but decreased the pore frequency of calcite formed via amorphous calcium carbonate (ACC).

Pore Size Analysis: 2D-(SEM)Image Analysis by ImageJ (open source software; https://doi.org/10.1038/nmeth.2089)