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Nanoscopic Techniques for Carbon Sequestration

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Extremely small growth and dissolution rate measurements are needed for the estimation of carbon sequestration, the rate of which has been measured by varieties of methods. Among others, advanced phase-shift interferometry has an advantage to measure the rate as small as 10-5nm/s. Some approach has been conducted to investigate coupled dissolution and precipitation mechanism related to carbon sequestration using this sophisticated technique.

Keywords: crystal growth, carbon sequestration, disolution tate, growth rate, in situ observation