

### CO<sub>2</sub> storage and releasing behavior of ice

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At the circumstance that global warming is being accelerated as the industry keeps growing, which increase the emission of CO<sub>2</sub> necessarily. For that reason lots of studies have been performed for the disposal of CO<sub>2</sub> such as photo catalyst for CO<sub>2</sub> conversion to fuel. But previous development of CO<sub>2</sub> separation and storage techniques is essential. Herein we suggest new method to capture CO<sub>2</sub> by using ice and analyzed the phenomena by using XRD, Raman and NMR.