

# Accepted Manuscript

## Crystal Morphology-Based Kinetic Study of Carbon Dioxide-Hydrogen-Tetra-n-butyl ammonium bromide Hydrates Formation in a Static System

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## Highlights

- TBAB hydrate and TBAB/gas mixture hydrate are two independent processes.
- Flocculent crystal formed in the gas-liquid interface is easy to form dense layer.
- Hydrate morphology becomes constraint of gas uptake under high operating pressure.

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