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Key Technologies for Natural Gas Hydrate Development and Carbon Capture and Storage

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submissions:

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Message from the Guest Editors

Gas hydrates account for one-third of the mobile organic carbon on Earth and exist in a wide variety of forms. Hydrate-based technologies, including CO₂ capture, CO₂ separation, and natural gas storage and transportation, can also be used to reduce greenhouse gas (CO₂, CH₄) emissions and achieve carbon neutrality.

Therefore, the purpose of this Special Issue is to solicit contributions on all aspects of technologies related to natural gas hydrate and carbon capture and storage. Topics of interest for publication include, but are not limited to:

- Pore-scale modeling of NGH release or CCS
- Imaging technologies for NGH transportation or CCS
- Micromodel experiments on NGH transportation or CCS
- Logging technologies to evaluate the occurrence of NGH
- New physical insights of NGH CCS
- Reservoir-scale simulation of NGH development
- Artificial intelligence in petroleum engineering
- Application of NGH in carbon cycling

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Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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