

## Special Issue

# Advances in Gas Hydrate: From Formation to Exploitation Processes

### Message from the Guest Editors

Gas hydrates, which are crystalline compounds formed from water and gas molecules under high-pressure and low-temperature conditions, have been studied extensively in recent years due to their potential use as an alternative source of energy. This Special Issue, entitled “Advances in Gas Hydrate: From Formation to Exploitation”, aims to present recent advancements in the field of gas hydrates, encompassing their formation, characterization, and exploitation. The scope of this Special Issue includes, but is not limited to, the following topics:

- Formation Mechanisms
- Characterization Techniques
- Exploitation Technologies
- Environmental Impacts
- Geological Hazards
- Future Directions

This Special Issue will provide researchers, industry experts, and policymakers with a platform for the dissemination of knowledge regarding the rapidly evolving field of gas hydrates. We look forward to receiving your contributions, which will enhance our fundamental understanding of gas hydrates and their practical applications in sustainable energy production.

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### Guest Editors

Dr. Pengwei Zhang

Prof. Dr. Lele Liu

Dr. Lujun Wang

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### Deadline for manuscript submissions

31 October 2025



## Processes

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