

## Special Issue

# Investigation on the Kinetics of Gas Hydrates

### Message from the Guest Editor

Natural gas hydrates (NGHs), formed under low-temperature and high-pressure conditions, represent a major energy and environmental research frontier. With vast global reserves, they offer significant energy potential but also pose geohazard risks. Their exploitation involves complex challenges like multiphase flow, thermal stimulation, and geomechanical stability. Furthermore, as climate change progresses, understanding NGHs' role in the carbon cycle—including their potential for carbon storage and susceptibility to destabilization—is critical. Interdisciplinary collaboration is essential to drive innovations for safe and efficient hydrate utilization, supporting global energy transition and climate resilience goals. This Special Issue welcomes original research, reviews, and technical commentaries. Contributions should advance hydrate science in areas such as:

- Formation mechanisms and characteristics
- Safe production and utilization methods
- Flow assurance and risk management
- Hydrates and global change
- Novel applications (e.g., gas storage, CO<sub>2</sub> sequestration)

We look forward to your valuable insights.

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### Guest Editor

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### Deadline for manuscript submissions

5 March 2026



## Energies

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### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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