



Advances in Natural Gas Hydrate Exploitation, Hydrate Technology, Carbon Capture and Storage

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Message from the Guest Editors

This Special Issue, entitled “Advances in Natural Gas Hydrate Exploitation, Hydrate Technology, Carbon Capture, and Storage”, seeks contributions including basic and applied research, experimental studies, and simulation studies for hydrate-related technologies in the fields of natural gas hydrate exploitation, gas separation, solution concentration, cold storage, desalination, carbon capture, and storage, etc. Papers related to hydrate reaction devices and processes in hydrate-based utilization technologies will also be included. We welcome researchers to submit both original research articles and review papers to this Special Issue. Topics include, but are not limited to, the following:

1. Formation, dissociation, and exploitation of natural gas hydrate;
2. Hydrate-based utilization technology in separation processes and gas storage;
3. Hydrate-based desalination technology;
4. Hydrate-based utilization technology in cold storage with various media and a new hydrate cold storage system;
5. The development of high-efficiency hydrate reaction equipment and continuous hydrate processes;
6. Hydrate-based carbon capture and storage technology;
7. Other cutting-edge applications.





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Message from the Editor-in-Chief

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