



Marine Gas Hydrates: Formation, Storage, Exploration and Exploitation

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Message from the Guest Editors

Natural gas hydrates, as a significant reserve of clean energy, have been extensively investigated by energy institutions and researchers all over the world. The results show that the exploitation of gas hydrate resources is technically feasible. However, the production of natural gas has not yet reached the threshold of commercial exploitation, and the safety of long-term production has not been verified; hence, efficient extraction technology and methods are urgently needed for the development of natural gas hydrates. In terms of drilling, the weak bonding characteristics of the hydrate layer remains a significant challenge. In addition, hydrate flow assurance in the process of gas hydrate transport and storage has hindered the development of oil and gas fields. Therefore, research and development of new hydrate management methods and technologies are now a priority in the field of energy.

This Special Issue aims to collate papers that underscore the latest progress in theory, experiment, modeling and application of marine gas hydrates, as well as highlight the processes of their formation, storage, exploration, exploitation, and transportation.





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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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