

Special Issue

Marine Gas Hydrates: Formation, Storage, Exploration and Exploitation

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.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

Editor-in-Chief

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