

Special Issue

Advances in Marine Gas Hydrate Exploration and Discovery—2nd Edition

Message from the Guest Editors

The aim of this Special Issue is to advance research on gas hydrate exploration and discovery in continental margins, with an emphasis on the mechanism of accumulation and the assessment of marine hydrate's environmental and resource benefits. Papers on the following topics are welcome: gas hydrate exploration, exploration theory and technology, the distribution and occurrence of hydrates in nature, resource appraisal techniques and technology, environmental monitoring, and the relationship between hydrates and climate change. We welcome the submission of both review and research papers to this Special Issue. Topics of interest for this Special Issue include, but are not limited to, the following:

- Geological, geophysical, and geochemical method for the exploration of gas hydrate;
- Dynamic gas hydrate system and methane recycling;
- Hydrate occurrence associated with cold seeps;
- Resource evaluation and prediction methods;
- Environmental monitoring and evaluation of the gas hydrate system;
- The interaction between climate change and the gas hydrate system;
- New technology and applications in gas hydrate exploration.

Guest Editors

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).