

## Special Issue

# Recent Advances in Hydraulic Machinery and Its Application in Marine Engineering

### Message from the Guest Editors

As an important branch of hydraulic machinery, ocean fluid machinery plays an indispensable role in the development of marine resources and the construction of marine engineering. A thorough exploration of the internal flow state of ocean fluid machinery has significant academic value and practical implications.

- Advances in numerical simulation and experimental techniques for analyzing internal flows in marine hydraulic machinery.
- Insight into the complex flow patterns and turbulence characteristics within marine pumps, turbines, and other related equipment.
- Investigations into the influence of internal flow mechanisms on the performance, efficiency, and reliability of marine fluid machinery.
- Innovations in design optimization and material selection to enhance the internal flow characteristics and overall performance of marine fluid machinery.
- Studies on the interaction between internal flows and structural dynamics in marine fluid machinery, and its impact on operational stability and safety.
- Cross-disciplinary approaches that integrate fluid dynamics, mechanical engineering, and materials science to address challenges in marine fluid machinery design and operation.

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### Guest Editors

Dr. Changliang Ye

Prof. Dr. Yuan Zheng

Dr. Kan Kan

Dr. Ran Tao

Dr. Huixiang Chen

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### Deadline for manuscript submissions

closed (31 January 2026)



## Journal of Marine Science and Engineering

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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.

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### Editor-in-Chief

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).