

# Special Issue

## Hydrodynamic Circulation Modelling in the Marine Environment

### Message from the Guest Editors

Modelling the hydrodynamic circulation in the marine environment is one of the most challenging topics in the marine sciences. We are pleased to invite you to share your research in the Special Issue “Hydrodynamic Circulation Modelling in the Marine Environment”. This Special Issue aims to explore the recent advances in hydrodynamic numerical modelling and discuss how these contribute to the existing knowledge of the ocean dynamics covering small- and large-scale processes. Coupling techniques between hydrodynamic modelling and biochemical and atmospheric models, and advanced parameterization techniques are critical to improve the performance of the numerical simulations and enhance transboundary scientific knowledge. The Special Issue scope is to publish articles that illustrate the hydrodynamic circulation modelling capabilities to reproduce realistic conditions and advance our knowledge of the mechanisms that control ocean and coastal dynamics, as well as marine water quality. In this Special Issue, original research articles and reviews are welcome. We look forward to receiving your contributions.

### Guest Editors

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### Deadline for manuscript submissions

closed (25 May 2024)



## Journal of Marine Science and Engineering

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an Open Access Journal  
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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

Prof. Dr. Charitha Pattiaratchi

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#### High Visibility:

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#### Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

#### 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).