# Special Issue

# Design, Modeling, and Development of Marine Renewable Energy Devices

## Message from the Guest Editors

Marine renewable energy (MRE) devices are key for the ambitions to decarbonize the energy sector, and they represent a rapidly evolving and expanding field of technology. This Special Issue aims to compile original research papers and review articles that highlight the latest advancements in devices for the conversion of marine renewables, including ocean energy sources such as tidal, wave, ocean thermal energy conversion, and salinity gradients, as well as floating photovoltaic energy and offshore wind. The potential topics of research and review papers include, but are not limited to, the following:

- The development of technologies for marine renewable energy conversion;
- The optimisation of the design of MRE devices;
- Hybrid devices for energy conversion integrated into multipurpose and combined structures, both for installation in offshore and coastal areas;
- The development of power take-off components and mooring systems for MRE devices;
- The effect of climate change on MRE productivity and survivability;
- The latest advances in numerical and experimental modelling approaches for MRE devices.

## Guest Editors

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## Deadline for manuscript submissions

30 December 2025

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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).