

Special Issue

Modeling, Design and Commercialization of Wave Energy Converters

Message from the Guest Editors

In order to tackle the climate change and environmental pollution challenge, many strategies at the global, European, and national level have been defined. All of them include the further development of renewable energy extraction technologies, and to reach the green energy transition, wave energy has its place in the future energy mix. Challenges remain regarding modeling and design of wave energy converters (WECs) in order to reach commercialization. These challenges will be addressed in this Special Issue of *Journal of Marine Science and Engineering*. More specifically, high-quality papers regarding wave energy converter technologies related to the following topics are very much encouraged:

- Hydrodynamic numerical modeling;
- Experimental modeling and testing;
- Real sea testing;
- Design optimization;
- Resource modeling and characterization;
- Mooring modeling and design;
- Power take-off modeling and design;
- Levelized cost of energy analysis;
- Commercialization strategies.

Guest Editors

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Deadline for manuscript submissions

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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

Prof. Dr. Charitha Pattiaratchi

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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).