

# Special Issue

## Ocean Surface Waves and Wave-Related Processes

### Message from the Guest Editor

This Special Issue aims to highlight recent advances in the understanding, modeling, observation, and applications of ocean surface waves and their related physical processes. We invite contributions that address fundamental theories, innovative numerical methods, laboratory studies, field measurements, and engineering applications concerning ocean waves and their interactions with the atmosphere, seabed, currents, and coastal and offshore structures.

- wave generation, growth, and dissipation mechanisms
- wave-current, wave-wind, and wave-structure interactions
- nonlinear and dispersive wave modeling
- wave propagation over variable bathymetry and porous seabeds
- wave energy harvesting and wave-driven coastal processes
- extreme wave events and rogue waves
- advances in experimental and field techniques for wave studies
- data assimilation, machine learning, and AI in wave modelling

### Guest Editor

Prof. Dr. Chia-Cheng Tsai

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### Deadline for manuscript submissions

20 December 2025



## Journal of Marine Science and Engineering

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Impact Factor 2.8  
CiteScore 5.0



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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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi  
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