

Special Issue

Models of Ocean-Wave- Atmosphere Interaction Processes

Message from the Guest Editor

Ocean surface covers 70% of global earth surface. In air–sea interface, the ocean–wave–atmosphere interactions control momentum of heat and mass transfer between the atmosphere and ocean, which plays a critical role in the weather and climate systems. Accurate representation of ocean–wave–atmosphere interaction processes in models is centrally important for climate and weather predictions, as well as mechanism studies of extreme events. Meanwhile, ocean–wave–atmosphere interactions are important processes to understand the evolution of marine extreme events and climate change. Various methods, including in situ measurements, large-eddy simulations, coupled model simulations, machine learning, etc., have been used to explore the ocean–wave–atmosphere interaction processes and their impacts on weather and climate. We seek to gather a series of publications that highlight new findings on various aspects of air–sea turbulent fluxes, gas transfer, boundary layer processes, parametrization development, coupled model development, simulations of marine extremes and climate.

Guest Editor

Dr. Lichuan Wu

Department of Earth Sciences, Uppsala University, Uppsala, Sweden

Deadline for manuscript submissions

closed (31 December 2021)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 4.4



mdpi.com/si/83119

*Journal of Marine Science and
Engineering*

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

mdpi.com/journal/

[jmse](https://mdpi.com/journal/)





Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 4.4



[mdpi.com/journal/
jmse](https://mdpi.com/journal/jmse)



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

Oceans Graduate School and The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

Author Benefits

High Visibility:

indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Marine) / CiteScore - Q2 (Civil and Structural Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2024).