

Special Issue

Advances in Ship and Marine Hydrodynamics

Message from the Guest Editor

The hydrodynamics of the marine environment, and especially the hydrodynamics of its interaction with ships and floating structures, is a scientific area stimulating the interest of both theoretical investigators attempting to develop analytical methods to solve difficult physical and mathematical problems and advanced engineers who implement cumbersome numerical methods to come up to a realistic solution. In both cases, the assumptions and the simplifications imposed on the original problems are critical for the reliability of the results, restricting the applicability of the proposed methodologies to specific types of ships or floating structures. Furthermore, complicated models or full-scale tests are extensively used to verify the applicability of the proposed techniques. Hydrodynamic topics are directly associated with the overall performance of ships and floating structures in calm and rough waters which directly affects their economic operation. On the other hand, the reliable and robust assessment of the performance of ships and floating structures in waves offers the opportunity to further improve it using biomimetic or other modern optimization methods.

Guest Editor

Prof. Dr. Gregory Grigoropoulos

Department of Naval Architecture and Marine Engineering, National Technical University of Athens (NTUA), Athens, Greece

Deadline for manuscript submissions

closed (30 May 2025)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/144698

*Journal of Marine Science and
Engineering*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

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





Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



[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
School of Engineering, 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 - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean
Engineering)

Rapid Publication:

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).