

## Special Issue

# Hydrodynamic Performances of Planing and Foiling Craft

### Message from the Guest Editors

Hydrodynamic lift has been widely used since low structural weight and light and powerful engines became available in the marine field. Passenger, military, working, and pleasure craft have overcome wave resistance constraints through a dynamic interaction with water flow. This principle results in exciting performances and new applications in the marine field. Nevertheless, dynamic instability and seakeeping limits require attention for the best exploitation of lift benefits. Hydrofoils after a period of reduced interest have gained new interest due to the exciting results of America's cup and offshore racing sailboats. The purpose of this Special Issue is to highlight recent developments in the field of high-speed craft that benefit from hydrodynamic lift and publish the most exciting achievements with the aim of free dissemination for research, teaching, and reference purposes.

---

### Guest Editors

Prof. Dr. Carlo Bertorello

Department of Industrial Engineering, University of Naples Federico II, 80125 Napoli, Italy

Prof. Dr. Andrea Ratti

Design Department, Politecnico di Milano, Milan, Italy

---

### Deadline for manuscript submissions

closed (31 January 2022)



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/85724](https://mdpi.com/si/85724)

*Journal of Marine Science and  
Engineering*

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

[jmse@mdpi.com](mailto:jmse@mdpi.com)

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

[jmse](https://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).