

## Special Issue

# Fatigue and Fracture Mechanics of Marine Structures 2nd Edition

### Message from the Guest Editor

The structural integrity of marine structures should be ensured under various environments, and given that it can be affected by different types of loads, the study of fatigue and fracture in these structures should also involve simulations using multi-physics or even multi-scale approaches in order to predict the strength of marine structures, crack growth or even their potential failure. This Special Issue focuses on the study of fatigue and fracture mechanics of marine structures by using different novel approaches. Relevant case studies will be considered, as well as studies exploring the effects of various parameters on the fatigue and fracture of marine structures and their components under different environments. Furthermore, advanced predictive models are also allowed. Finally, additive manufacturing methods for marine structures may also be evaluated here using different methods. Both original and review papers are welcome.

---

### Guest Editor

Dr. Nikolaos E. Karkalos

School of Mechanical Engineering, National Technical University of Athens, 15780 Zografou, Greece

---

### Deadline for manuscript submissions

closed (5 October 2023)



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/167594](https://mdpi.com/si/167594)

*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://www.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

*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

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 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).