

## Special Issue

# Fatigue Performance and Ultimate Strength of Ships and Marine Structures

### Message from the Guest Editors

In an environment in which cyclic loading, corrosion, and potential accidents are constant threats, ensuring that ships and marine structures can withstand these stresses is crucial. By using innovative designs such as bioinspired structures, and integrating advanced materials such as alloys and composites, engineers face new challenges regarding the prediction of the fatigue life and ultimate strength. This Special Issue aims to explore recent advances in the design and analysis of new and existing ships and marine structures. The scope of this Special Issue includes, but is not limited to, the following topics:

- Fatigue and fracture analysis in marine environments
- Strength assessment of ships and marine structures
- Impact resistance of marine structures
- Innovative design of ships and marine structures
- Advanced materials and composites in shipbuilding
- Corrosion prevention and control
- Seismic and dynamic load analysis
- Structural health monitoring and maintenance strategies
- Risk assessment and safety management

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### Guest Editors

Prof. Dr. Jian Zhang  
Dr. Yunsen Hu  
Dr. Fang Wang

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### Deadline for manuscript submissions

closed (28 February 2025)



## Journal of Marine Science and Engineering

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an Open Access Journal  
by MDPI

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Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/215683](https://mdpi.com/si/215683)

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## 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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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### 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).