

Special Issue

Design and Analysis of Ship Structure

Message from the Guest Editor

The structural design of ships is undergoing significant transformation as the maritime industry embraces sustainability and digitalization. This Special Issue seeks to consolidate recent advances in the design and intelligent monitoring of both conventional ships and emerging vessel types.

These advanced ship types demand robust structural integrity, high-performance insulation systems, and reliable thermal-mechanical behavior to support safe and energy-efficient operations. In addition to new paradigms, this Special Issue welcomes studies on traditional structural concerns, such as fatigue analysis, collision, ultimate strength assessment, and fluid-structure interaction under complex loading conditions. Simultaneously, the integration of Digital Twin technologies, real-time structural health monitoring, and AI-based design automation—utilizing deep learning, Transformer models, and natural language processing—offers innovative tools for predictive diagnostics, performance enhancement, and life-cycle optimization of ship structures.

Guest Editor

Prof. Dr. Jang Hyun Lee

Department of Naval Architecture and Ocean Engineering, INHA University, Incheon 22212, Republic of Korea

Deadline for manuscript submissions

10 October 2025



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/239329

*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).