# Special Issue

## Advances in Marine Mechanical and Structural Engineering—2nd Edition

### Message from the Guest Editors

In the advanced design of novel structures used in marine, mechanical, and structural engineering, a pivotal challenge lies in predicting accurately their strength, amidst the integration of new materials and structures, within the context of extreme marine environments and potential accidents. This Special Issue aims to explore the advances in marine, mechanical, and structural engineering, as well as recent advanced design and analysis of materials and structures. We welcome mechanical analyses of advanced materials such as alloys and composite materials, and strength analyses of novel structures such as sandwich structures in ship superstructures and special structures in underwater vehicles, in order to ensure that marine structures remain lightweight, safe, and economical throughout their lifetimes. Potential topics include, but are not limited to: strength assessment of marine structures; mechanical analysis of structural materials; design and optimization of lightweight structures; impact strength of marine structures; ultimate strength analysis; fatigue and fracture assessment; vibration and noise; corrosion effect; steel and alloy structures; and composite structures.

### Guest Editors

Prof. Dr. Chenfeng Li

Prof. Dr. Kun Liu

Prof. Dr. Bin Liu

### Deadline for manuscript submissions

10 August 2025

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*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

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# 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

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