

## Special Issue

# Application of Flexible Structure in Marine Engineering

### Message from the Guest Editor

In order to meet coastal protection, the worldwide demand of energy, and food production needs, researchers are working hard to find flexible-type structures that are cost-efficient, reusable, rapidly deployable, protected from seismic shocks, and do not damage the marine ecosystem, which could find applications in breakwaters, flexible-type structure wave energy converters, fish cages, etc. As the mathematical theory and methods of flexible structure type complex problems are still under development, modeling of such problems based on various methodologies will have a great impact and be of interest to the readers. This Special Issue will include, without being limited to, the following topics:

- Linear and nonlinear wave interaction with flexible structures;
- Breakwaters of horizontal/vertical flexible porous elastic/membranes;
- Flexible wind energy device, plate/membrane type structure;
- Analytical and numerical flexible net-type model;
- Fluid-structure interactions;
- Boussinesq-type model associated with flexible structures;
- Effect of bottom on floating/submerged flexible structures;
- Flexible floating/submerged and moored system dynamics.

### Guest Editor

Dr. Sarat Chandra Mohapatra

Centre for Marine Technology and Ocean Engineering (CENTEC),  
Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais,  
1049-001 Lisboa, Portugal

### Deadline for manuscript submissions

closed (31 July 2021)



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0

---



[mdpi.com/si/43715](https://mdpi.com/si/43715)

*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/  
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

Oceans Graduate School and 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).