

# Special Issue

## Instability and Failure of Subsea Structures

### Message from the Guest Editors

We warmly invite you to contribute a review, perspective, communication, or research articles regarding “Instability and Failure of Subsea Structures”.

**Challenges:** Subsea structures are designed to meet requirements of having a reasonably long and safe operational life with the risk of catastrophic failures in ocean environments reduced to a minimum. The safety and resilience of subsea development are highly dependent on the stability, deformability, ductility, and strength of subsea structures or materials. The complicated interactions between the fluids, subsea structures, and the seabed have not been well understood. Another challenge is that problematic soils are widely distributed in the seabed. These will bring about numerous geohazards, foundation instabilities, structural or material failures.

**Potential topics:** Potential topics of this Special Issue include, but are not limited to:

- (1) Failure mechanisms of subsea structures;
- (2) New materials used in subsea structures;
- (3) New design methods for subsea structures;
- (4) New construction methods for subsea structures.

---

### Guest Editors

Prof. Dr. Fuping Gao

Shenzhen International Graduate School, Tsinghua University,  
Shenzhen 518071, China

Dr. Zhen-Yu Yin

Department of Civil and Environmental Engineering, The Hong Kong  
Polytechnic University, Hong Kong, China

---

**Deadline for manuscript submissions**



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/67704](https://mdpi.com/si/67704)

*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://mdpi.com/journal/)





# 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).