

# Special Issue

## Advanced Studies in Offshore Geotechnics

### Message from the Guest Editor

Key topics covered in this Special Issue include offshore foundation engineering, with a focus on novel foundation systems such as suction caissons, monopiles, and hybrid foundations. Contributions explore the geotechnical behavior of seabed sediments, including soil/rock–structure interaction under complex loading conditions, cyclic and dynamic soil/rock responses, and advanced constitutive modeling for offshore applications. Advancements in numerical and physical modeling techniques are also emphasized, including the application of finite element methods, machine learning, and centrifuge model testing for simulating offshore geotechnical problems. In addition, this Special Issue addresses the geohazard assessment, covering submarine landslides, soil liquefaction, and the impact of extreme environmental conditions on foundation stability.

- offshore geotechnics
- seabed soil/rock–structure interaction
- offshore foundation engineering
- dynamic and cyclic soil/rock behavior
- geohazard assessment
- numerical and physical modeling
- submarine landslides and liquefaction
- floating offshore wind turbines
- sustainable offshore development
- carbon storage and deep-sea mining

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### Guest Editor

Dr. Jiayi Shen

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### Deadline for manuscript submissions

closed (25 August 2025)



## Journal of Marine Science and Engineering

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CiteScore 5.0



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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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#### 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).