

Special Issue

Seismic Analysis and Design of Ocean and Underground Structures

Message from the Guest Editors

Advancements in seismic analysis and design techniques for ocean and underground structures have become imperative in the face of evolving challenges in structural engineering. This Special Issue aims to provide a platform for the dissemination of novel ideas and empirical findings in the realm of seismic analysis and design, focusing on the safety of structures situated in oceanic and subterranean environments. Relevant areas encompass a broad spectrum, including innovative analytical approaches, state-of-the-art numerical simulations, and practical design solutions. Contributions are sought in the fields of structural dynamics, geotechnical engineering, and offshore engineering. Topics will span offshore platforms, reef engineering, submarine pipelines, underground tunnels, and other subterranean structures.

- Advanced modeling and simulation techniques of ocean and underground structures;
- Structural health monitoring for ocean and underground structures;
- Innovative materials and construction methods for seismic resilience;
- Seismic risk assessment and mitigation strategies specific to marine and subsurface environments;
- Multi-hazard risk assessment for ocean structures.

Guest Editors

Dr. Xin Bao

Dr. Jingqi Huang

Prof. Dr. Piguang Wang

Deadline for manuscript submissions

closed (30 November 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/191124

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](http://mdpi.com/journal/applsci)

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

