Special Issue

Seismic Design and Fatigue Analysis in Structural Engineering

Message from the Guest Editors

This Special Issue aims to provide a platform for state-of-the-art research, innovative methodologies, and practical case studies in seismic design and fatigue analysis within the field of structural engineering. Contributions may include, but are not limited to:

- Experimental and numerical investigations of nonlinear structural dynamic behavior
- Experimental and numerical investigations of cyclic loading effects, low-cycle fatigue, and cumulative damage
- Seismic performance assessment of structures and infrastructures with uncertainty
- Innovative seismic design methods, particularly performance-based, life-cycle-based, sustainability-based, and resilience-based methods
- Fatigue failure analyses of bridges, buildings, offshore platforms, and other critical infrastructure
- Case studies from recent earthquakes highlighting fatigue-related damage mechanisms

Guest Editors

Dr. Lianxu Zhou

Civil and environmental engineering, University of California, Davis, CA, USA

Prof. Dr. Aijun Ye

Department of Bridge Engineering, College of Civil Engineering, Tongji University, Shanghai, China

Deadline for manuscript submissions

20 May 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/256277

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

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)

MDPI