

## Special Issue

# Soil Dynamics and Earthquake Engineering in Sustainability

### Message from the Guest Editors

This Special Issue of *Sustainability* will be devoted to soil dynamics and earthquake engineering. The sustainable safety of civil structures in seismic zones such as tunnels, dams, bridges, and buildings is threatened by earthquakes, which has attracted widespread attention. It is of great significance to study the dynamic response of the structures under the seismic loads as well as the effects of the earthquake source, path and local site on the ground motions, in order to improve the performance and sustainability of the engineering. More detailed and accurate studies on idealized or practical problems by using these methods will undoubtedly advance a better understanding of sustainable earthquake engineering.

- Seismology relevant to earthquake engineering
- Wave propagation and scattering in soils and rocks
- Dynamic constitutive behaviour of soils and rocks
- Seismic analysis and design of tunnels, dams, slopes, bridges, and buildings
- Foundation and soil-structure interactions
- Site effects and ground motions
- Seismic performance and seismic damage
- Slope stability and reinforcement
- Pile dynamics
- Physical modelling
- Numerical and analytical methods

---

### Guest Editors

Prof. Dr. Ning Zhang

Dr. Shuai Li

Dr. Denghui Dai

Dr. Xin Chen

---

### Deadline for manuscript submissions

closed (1 September 2023)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/121082](https://mdpi.com/si/121082)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

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





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



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



## About the Journal

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
Institute of Technology, Oshawa, ON L1G 0C5, Canada

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)