

## Special Issue

# Geotechnical Engineering towards Sustainability

### Message from the Guest Editor

While the application of geotechnical research is practical in nature, the improvement of fundamental knowledge of geotechnical engineering and its potential risk or impact when implemented in field applications are key aspects of sustainability in geotechnical engineering. The development of laboratory/field experiments and numerical techniques will improve the sustainable design of geotechnical and geoenvironmental infrastructure. Furthermore, efforts to ensure sustainability in geotechnical engineering should include consideration of reliability and resilience aspects because of the stochastic nature of geomaterials with high uncertainty. Quantifying the uncertainty of geotechnical properties or failure would enable reliability-based geotechnical design. Relevant topics in this Special Issue could include: Sustainable technologies in geotechnical engineering; Geomaterial characterization for sustainability; Bio-mediated and bio-inspired geotechnics; Environmentally-friendly ground improvement techniques; Reliability analysis in geotechnical engineering; Geotechnical cost-effective solutions.

---

### Guest Editor

Dr. Jongmuk Won

Department of Civil and Environmental Engineering, University of Ulsan,  
Ulsan 44610, Republic of Korea

---

### Deadline for manuscript submissions

closed (31 January 2023)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/73085](https://mdpi.com/si/73085)

*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, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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