



Rock Discontinuities at Different Scales: New Advances from Lab Tests to Field Applications

Guest Editors:

Prof. Dr. Fanzhen Meng

College of Science, Qingdao
University of Technology,
Qingdao 266520, China

Dr. Wengang Dang

School of Civil Engineering, Sun
Yat-sen University, Guangzhou,
China

Deadline for manuscript
submissions:

closed (17 February 2024)

Message from the Guest Editors

Rock discontinuities (joints, fractures, bedding plane, faults) are ubiquitous and usually with different scales in the rock mass as results of geological tectonism or excavation unloading. Those discontinuities provide not only preferential pathways for groundwater flow and heat exchange, but also weak planes to favor the shear failure of different rock engineering such as rock slopes, tunnels and dam foundations. A number of geological disasters such as landslides, fault slip rockbursts, induced earthquakes and water inrush are associated with the shear failure of rock discontinuities. Therefore the study on the geometrical, physical and mechanical properties of rock discontinuities with various scales is of great importance for safe construction of rock engineering and subsurface energy recovery. This Special Issue aims to provide an opportunity to researchers in the relevant research fields to conduct a broad scientific and technological discussion on advances in rock discontinuities from lab to the field spanning different scales. The research methodology includes experimental, analytical, numerical, and field studies. Review and research articles are both welcome.





an Open Access Journal by MDPI

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

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.

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)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)