

Special Issue

Rock Mechanics in Geotechnical and Tunnel Engineering

Message from the Guest Editors

Rock mechanics is the scientific study of the deformation and failure behavior of rocks under external forces, which directly relates to the stability and safety of geotechnical and tunnel engineering. It plays an irreplaceable role in the design, construction, and operation of engineering projects. With the development of industry, the acceleration of urbanization, and the deepening of underground space utilization, higher requirements have been put forward for the safety and reliability of geotechnical and tunnel engineering. Simultaneously, there is a continuous pursuit of higher economic benefits and lower environmental costs. Therefore, research and application of rock mechanics have become particularly important. By focusing on the frontier issues of rock mechanics in geotechnical and tunnel engineering fields, this theme aims to enrich the theory of rock mechanics, enhance the stability analysis level of geotechnical engineering, and provide scientific support for underground space development such as tunnels and mineral resource exploitation.

Guest Editors

Dr. Yun Lin

School of Resources and Safety Engineering, Central South University,
Changsha 410083, China

Dr. Chun Yang

School of Resources and Safety Engineering, Central South University,
Changsha 410083, China

Deadline for manuscript submissions

20 December 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/201737

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](https://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)