





an Open Access Journal by MDPI

Experimental Investigation and Numerical Modeling of Rock Brittle Failure Behavior under High Stress Conditions

Guest Editors:

Prof. Dr. Zhengzhao Liang

Faculty of Infrastructure Engineering, Dalian University of Technology, Dalian, China

Prof. Dr. Nuwen Xu

State Key Laboratory of Hydraulics and Mountain River Engineering, College of Water Resource and Hydropower, Sichuan University, Chengdu 610065, China

Dr. Bei Jiang

Stake Key Laboratory for Geomechanics and Deep Underground Engineering, China University of Mining and Technology (Beijing), Beijing 100083, China

Deadline for manuscript submissions:

closed (20 May 2023)

Message from the Guest Editors

Some new laboratory experimental techniques and numerical simulation methods for understanding rock mechanical behavior have appeared in recent years. This Research Topic aims to highlight the influence of high stress on the failure behaviors and mechanical properties of brittle rock under high stress. Submissions of original research articles, review articles, and case studies are all welcome

Potential topics include, but are not limited to:

- Failure mechanism of brittle rock under high stress
- Mechanical properties of brittle rock under high stress
- Damage constitutive model of brittle rock under high stress
- Analysis and evaluation of deep rock engineering
- New numerical simulation method for deep brittle rock
- New technology of deep brittle rock test











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola CerulloDipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us