

## Special Issue

# Advances in Discontinuous Structure and Fractured Mechanical Behaviors of Rock Materials

### Message from the Guest Editors

The discontinuous features of rock materials, including pores, fractures, joints, and faults, significantly influence their physical and mechanical properties. Their coupled effects on the deformation, damage, fracture, and failure of underground rocks have profound implications.

Consequently, obtaining a comprehensive understanding and characterization of the intricate non-continuous structures and fractured mechanical behaviors of rocks would provide a solid theoretical foundation and innovative practical approaches for underground engineering in fields such as petroleum, geology, mining, metallurgy, and civil and hydraulic engineering. We encourage researchers to publish their latest research findings and review articles in the field of rock materials in this Special Issue. Topics of interest include, but are not limited to, the following:

- The characterization of the discontinuous structure of rock materials;
- Fractured mechanical behaviors of rock materials;
- Constitutive engineering of discontinuous rocks;
- Fluid mechanics in porous media and multi-phase flow;
- Fracture propagation behaviors of rocks.

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### Guest Editors

Prof. Dr. Yongming Yang

Dr. Peng Liu

Dr. Zhangyu Ren

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### Deadline for manuscript submissions

closed (20 July 2024)



## Materials

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### Message from the Editorial Board

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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