

## Special Issue

# Mechanics and Behavior of Saturated Coal and Sandstone in Underground Engineering

### Message from the Guest Editors

In the realm of underground engineering, fluid erosion and interference degrade coal and sandstone properties, and the discontinuous features of saturated coal and sandstone significantly influence their physical and mechanical properties. Their coupled effects on the deformation, damage, fracture, and failure of underground saturated coal and sandstone exert profound implications. This Special Issue aims to encourage researchers to publish their latest research findings and review articles in the field of saturated coal and sandstone. Potential topics include, but are not limited to, the following:

- Characterization of the discontinuous structure of coal and sandstone;
- Fractured mechanical behaviors of coal and sandstone;
- Constitutive engineering of discontinuous coal and sandstone;
- Single/multiphase fluid behavior in discontinuous structures;
- Deterioration of coal and sandstone by fluids;
- Determination of the propagation behaviors of the hydraulic fracture of coal and sandstone.

Papers are welcome on all relevant topics and especially on theoretical developments, analytical methods, numerical methods, rock testing, site investigation, and case studies.

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### Guest Editors

Prof. Dr. Yongming Yang

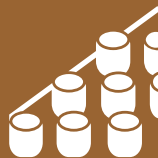
Dr. Jiangtao Zheng

Dr. Changbing Wan

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### Deadline for manuscript submissions

20 August 2025



## Materials

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*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

*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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### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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