Special Issue

Advances in Hydro-Thermal–Mechanical Coupling Geotechnical Engineering

Message from the Guest Editors

Hydro-thermal–mechanical coupling is a significant issue in geotechnical engineering that has implications for a wide range of applications. These applications include, for example, nuclear waste disposal, deep geothermal development, tunnel engineering, hydropower stations, frozen soil in cold regions, etc. Understanding the complex interactions between these processes is essential for designing safe and reliable geotechnical structures, managing natural resources, and addressing environmental concerns. . Potential topics include, but are not limited to, the following:

- Hydro-thermal–mechanical-coupled constitutive modeling;
- New methods and technology for rock mechanics experiments;
- Research on rock dynamics in cold regions;
- Long-term stability of underground engineering;
- Mechanism of water rock interaction;
- Grouting reinforcement of fractured rock mass.

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Deadline for manuscript submissions

20 October 2025

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/239021

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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