Special Issue

Advances in Water–Rock Interactions and Thermo-Hydro-Mechanical Processes

Message from the Guest Editors

Water–rock interactions and coupled thermo-hydro-mechanical (THM) processes play a crucial role in processes such as groundwater formation, circulation, storage, and contamination propagation. These intricate processes involve the permeation, diffusion, and reactions of water within geological formations, while being influenced by temperature, fluid flow, and stress. Understanding these coupled interaction holds paramount importance in various fields, including groundwater resource management, geothermal energy utilization, rock engineering, and geological hazard assessment. As technology advances and innovative research methods emerge, we have the opportunity to unravel the mechanisms and laws governing water–rock interactions and coupled THM processes more comprehensively. This will help to provide more accurate and reliable scientific support for applications in the field of Earth sciences.

Guest Editors

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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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