Special Issue

Research on Rock Mechanics under Freeze-Thaw Action

Message from the Guest Editors

The freeze–thaw action of rocks and soils is caused by the water–ice phase transition in pores and cracks. Repeated freeze–thaw cycles damage the physic-mechanical properties of rocks and soils via microscopic pore structure change, macroscopic strength loss and so on. Such mechanisms have induced many engineering geology disasters in cold regions. The degree of freeze–thaw damage is related to coupled multifields at low temperatures. However, the interaction of multifields of rock and soils during the freeze–thaw process is highly complex and not fully understood. In addition, the evaluation of the frost resistance of rocks and soils needs further study. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/96WB60844B

Guest Editors

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Deadline for manuscript submissions

closed (20 October 2023)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/140015

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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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