

## Special Issue

# Snow and Glacier Hydrology in Changing Climate and Urbanisation

### Message from the Guest Editor

This Special Issue focuses on the evolving dynamics of snow, Aufeis and glacier hydrology in the context of climate change and rapid urbanization. High-altitude regions, particularly those dependent on snow-, Aufeis- and glacier-fed water systems, face significant challenges due to rising temperatures, altered precipitation patterns, and increasing human activity. This Special Issue aims to provide a platform for advancing interdisciplinary knowledge and fostering actionable insights for sustainable water governance in cryospheric regions. We invite contributions that address the physical, hydrological, and socio-environmental dimensions of these transformations under the following topics: Climate-induced changes in snowmelt, Aufeis and glacier runoff; Impacts of urbanization on hydrological systems in cryospheric regions; Water resource management under competing demands; Cryospheric hazards and their downstream implications; Innovative adaptation strategies, such as artificial ice reservoirs and recharge systems; Integrated modeling approaches for predicting future water availability.

### Guest Editor

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### Deadline for manuscript submissions

25 January 2026



## Water

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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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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