

## Special Issue

# River Flow in Cold Climate Environments

### Message from the Guest Editors

In cold climate environments on Earth, river flow plays a crucial role in sustainable development by providing drinking water to over one billion people, strongly supporting crop production, generating hydropower energy, comforting urbanization, and preserving different unique ecosystems. Impacting snow, glacier, and

permafrost hydrological processes, both of climate change and anthropogenic activities generally alter cold-regions river flows and thereby poses different ecological, economic, and social challenges for humanity. Hence, improving our knowledge about observed and projected modifications in the river flows in cold climate

environments under climate change and/or human interventions is substantially important for addressing such challenges. This special issue aims at bringing together pure theoretical and applied researches on a wide range of topics related to the river flow, but with a focus primarily on cold climate environments.[...]

For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/water/special\\_issues/39JNHM15JD](https://www.mdpi.com/journal/water/special_issues/39JNHM15JD)

---

### Guest Editors

Dr. Masoud Irannezhad

Department of Process and Environmental Engineering, University of Oulu, Oulu, Finland

Dr. David Gustafsson

Swedish Meteorological and Hydrological Institute (SMHI), Norrköping, Sweden

---

### Deadline for manuscript submissions

closed (20 August 2023)



## Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/si/130524](https://www.mdpi.com/si/130524)

*Water*

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

[water@mdpi.com](mailto:water@mdpi.com)

[mdpi.com/journal/](https://www.mdpi.com/journal/)

[water](https://www.mdpi.com/journal/water)





# Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/journal/  
water](https://mdpi.com/journal/water)



## About the Journal

### 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

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR  
CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique  
(CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane,  
Toulouse, France

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)