



## Hydroclimatic Modeling and Monitoring under Climate Change

Guest Editor:

**Prof. Dr. Ali A. Assani**

Département des Sciences de l'Environnement, University of Quebec at Trois-Rivières, Trois-Rivières, QC G9A 5H7, Canada

Deadline for manuscript submissions:

**20 July 2024**

### Message from the Guest Editor

The impacts of global warming on the water cycle are accelerating. Floods and droughts are increasingly affecting many regions, some of which were thought to be safe before this century. Thus, it is necessary to assess these impacts on the water cycle and predict the changing effects in the context of the continuous and sustained rise in temperature. These impacts are strongly influenced by human activities.

The objective of [this Special Issue](#) is to focus on the impact of global warming on the water cycle, placing particular emphasis on river flows and lake water levels. Thus, it will include research papers which highlight the impacts of global warming on the water cycle in relation to anthropogenic activities. The topics of this Special Issue are as follows:

- The analysis of the spatiotemporal variability of the components of the water cycle (rivers and lakes) in the current context of global warming.
- The prediction of these components of the water cycle in the coming decades up to the year 2100 using hydrological and climatic models.
- The impacts of human activities on the amplification or attenuation of global warming on the components of the water cycle.





*water*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Dr. Jean-Luc PROBST**

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

## 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.

## 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 (*Water Science and Technology*)

## Contact Us

---

Water Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/water](http://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](https://twitter.com/Water_MDPI)