

## Special Issue

# Drought Occurrences, Characteristics, Impacts and Mitigations

### Message from the Guest Editors

Droughts occur when the available water is insufficient to sustain ecosystems, support agricultural productions, and/or maintain socioeconomic developments due to below-average precipitations, above-normal temperatures, significant increases in water consumptions and decreases in water yields, and/or water contaminations. For a given drought event, it may extend from a locality to a region or even a continent and can last days, months or years. This Special Issue calls for papers that study the occurrences, characteristics, impacts, and mitigations of droughts at various spatiotemporal scales using observations, simulations, and/or data analytics (e.g., artificial intelligence (AI) and machine learning (ML) algorithms). The example topics include but are not limited to: (1) contributions of climate change versus human activities to droughts; (2) impacts of droughts on ecosystems and communities; (3) adaptative and mitigative strategies to droughts; (4) water shortage due to contaminations; and (5) models, algorithms, and decision-support tools for assessing or predicting the severity and risk of droughts.

---

### Guest Editors

Prof. Dr. Xixi Wang

Prof. Dr. Juan Yin

Prof. Dr. Lizhu Hou

---

### Deadline for manuscript submissions

closed (28 March 2024)



## Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/si/150526](https://mdpi.com/si/150526)

*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/  
water](https://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)