



water

an Open Access Journal by MDPI



Extreme Hydrology: Induced Impacts and Vulnerability of Water Resources

Guest Editors:

Prof. Dr. Assefa M. Melesse

Department of Earth and
Environment, AHC-5-390, Florida
International University, 11200
SW 8th Street, Miami, FL, USA

Prof. Dr. Prasad Daggupati

School of Engineering, University
of Guelph, Guelph, ON, Canada

Dr. Khabat Khosravi

School of Climate Change and
Adaptation, University of Prince
Edward Island, Charlottetown, PE
C1A 4P3, Canada

Deadline for manuscript
submissions:

closed (15 August 2022)

Message from the Guest Editors

Dear Colleagues,

Drought and floods are natural hazards that are having an impact on the livelihood of many communities, leading to a loss of life and damage to natural resources and the environment. The world is experiencing an alarming rate of population increase, decline in freshwater resources, and shrinkage of natural and fragile ecosystems.

With the changing climate and frequent and extreme weather phenomena leading to extreme events, water resources managers and policymakers are struggling to offset the impacts on communities, freshwater availability, water quality, human welfare, and agricultural production and services. These efforts will require an understanding of the behaviors of these extreme phenomena, their linkages to climate dynamics, and the predictability and simulation of the extent of these events.

This Special Issue calls for high-quality research papers on drought monitoring and modeling, flood processes and forecasting, climate-change-related extreme events, water quality degradation, land degradation, and soil erosion, ground and surface water vulnerability, and other related areas.



mdpi.com/si/73924

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

ECOLAB, 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

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)