



water

an Open Access Journal by MDPI



Innovative Flood Risk Management under Changing Environments

Guest Editors:

Prof. Dr. Jin Zhang

Prof. Dr. Peter Krebs

Prof. Dr. Pei Hua

Dr. Wenyu Yang

Deadline for manuscript
submissions:

closed (25 June 2024)

Message from the Guest Editors

Climate change and urbanization are altering regional hydro-environments, bringing new challenges to flood risk management.....

To address these issues, a novel framework for flood risk management under changing environments is necessary. Regarding flood complexity, multi-scale hydrological modeling approaches can combine different types and scales of floods, helping us unravel flood interactions during risk assessment. In terms of urban resilience, multi-dimensional flood risk assessment can analyze the direct hazards of floods whilst considering their associated impacts, such as pollution and exposure risks. In doing so, it can comprehensively optimize decision-making in urban flood adaptation in response to climate change and urbanization.

Accordingly, the primary purpose of this Special Issue is to present recent studies on novel frameworks for flood risk management in terms of multi-scale hydrological modeling, multi-dimensional flood risk management, flood-triggered pollution, machine learning, and data mining-based flood analysis.....



mdpi.com/si/193539

Special Issue



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, Grosspeteranlage 5
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/X@Water_MDPI)