

Special Issue

Advanced Watershed Hydrology and Water Quality Modeling Development and Application

Message from the Guest Editor

A broad range of watershed models have been successfully developed for the simulation of hydrology, erosion, and the transport/fate of sediment and pollutants across the watershed. These models have become important and effective tools for assessing hydrology and environmental issues in the past several decades. With the rapid progress of computer technologies, high-resolution data, and advanced science, existing watershed models have been improved with efficient numerical computation, physically based process descriptions, or addressing the best management practices, challenging climate change, and emerging water quality issues. This Special Issue titled “Advanced Watershed Hydrology and Water Quality Modeling Development and Application” solicits manuscripts describing the latest research and development of watershed hydrology and water quality modeling and their case studies. It is our hope that a collection of papers for this Special Issue will provide the audience with a resource covering the following aspects of watershed hydrology and water quality modeling development and application.

Guest Editor

Prof. Dr. Zhonglong Zhang
Department of Civil and Environmental Engineering, Portland State University, Portland, OR, USA

Deadline for manuscript submissions

closed (20 December 2023)



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/154683

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)