

## Special Issue

# Mechanism and Prevention of Debris Flow Disaster

### Message from the Guest Editors

Debris flow is one of the most catastrophic geological events around the world. Strong earthquakes and heavy rainfall events are the most significant contributors to the frequent occurrence of large debris flow.

Understanding the debris flow disaster and putting forward effective control measures is a societal priority. However, there are significant technical challenges associated with the mechanisms and prevention of debris flow disaster. This Special Issue will cover the recent advances and future developments concerning debris flow in the initiation mechanisms of debris flow, unsteady flow performance, channel erosion mechanisms, debris flow impact estimation, regional risk assessment, design optimization of debris flow mitigation measures, etc. In addition to these main topics, we further encourage the submission of original research and synthetic reviews through field investigations, novel data acquisition techniques, laboratory and model experiment research, new numerical approaches, and the application of artificial intelligence approaches.

---

### Guest Editors

Prof. Dr. Yu Huang

Prof. Dr. Jin Sun

Dr. Chongqiang Zhu

---

### Deadline for manuscript submissions

closed (31 December 2021)



## Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/si/71500](https://mdpi.com/si/71500)

*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)