

Special Issue

Key Hydrological Processes and Its Controlling Factors in Terrestrial Ecosystems

Message from the Guest Editors

Terrestrial ecosystems are among the most complex and critical ecosystems on Earth. Understanding and studying the hydrological processes inherent to terrestrial ecosystems is crucial for the conservation and management of these ecosystems and maintaining ecological balance.

This Special Issue aims to explore the key hydrological processes occurring in terrestrial ecosystems and how they influence ecosystem dynamics and ecosystem services. The specific research content can include, but is not limited to:

1. Land-use or land-cover change impacts on hydrological processes: Investigating the effects of land-use or land-cover change on hydrological processes in terrestrial ecosystems.
2. Soil-sediment-hydro-ecological processes at multiple scale: Studying the interaction between soils and sediments and hydro-ecological processes at multiple scales in terrestrial ecosystems.
3. Forest disturbance impacts on hydrological processes: Investigating the effects of forest disturbance on hydrological processes related to ecosystem services, providing scientific evidence for land management and conservation.

Guest Editors

Dr. Licong Dai

Dr. Xiaowei Guo

Prof. Dr. Charles Bourque

Deadline for manuscript submissions

closed (31 May 2025)



Land

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 5.9



mdpi.com/si/194727

Land
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
land@mdpi.com

mdpi.com/journal/

[land](https://land.mdpi.com)





Land

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 5.9



[mdpi.com/journal/
land](https://mdpi.com/journal/land)



About the Journal

Message from the Editor-in-Chief

Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant impact factor, and has a goal to become the best journal in land in the coming years. I strongly recommend *Land* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

Prof. Dr. Christine Fürst

Institute for Geosciences and Geography, Department Sustainable Landscape Development, University of Halle, Von-Seckendorff-Platz 4, 06120 Halle, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SSCI (Web of Science), PubAg, AGRIS, GeoRef, RePEc, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Nature and Landscape Conservation)