

Key Hydrological Processes and Its Controlling Factors in Terrestrial Ecosystems

Guest Editors:

Dr. Licong Dai

School of Ecology and
Environment, Hainan University,
Haikou 570228, China

Dr. Xiaowei Guo

Qinghai Provincial Key
Laboratory of Restoration
Ecology for Cold Region,
Northwest Institute of Plateau
Biology, Chinese Academy of
Sciences, Xining, China

Prof. Dr. Charles Bourque

Faculty of Forestry and
Environmental Management,
University of New Brunswick,
Fredericton, NB E3B 5A3, Canada

Deadline for manuscript
submissions:

closed (31 May 2025)

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.



an Open Access Journal by MDPI

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

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.

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)

Contact Us

Land Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/land
land@mdpi.com
[X@Land_MDPI](https://twitter.com/Land_MDPI)