

Special Issue

The Relationship Between Forest Vegetation and Water and Its Regulation in Changing Environments

Message from the Guest Editors

Extensive afforestation has contributed to the mitigation of some environmental problems, but has also led to severe soil water deficit and water yield reduction. In water-limited regions especially, forest growth is gradually limited by the coupled effects of excessive tree density and water shortages; such water use conflicts are likely to be further exacerbated by climate change, particularly global warming. This Special Issue aims to present an overview of the most recent advances in the field of the hydrological impacts and responses of forests to changes in water-related conditions in diverse spatiotemporal scales. Papers of all theoretical, methodological, and practical studies on forest–water relationships and management are welcomed:

- Water use through evaporation and/or transpiration;
- Hydrological modelling;
- Impact of afforestation on the hydrological process and water yields;
- Tree water use strategy;
- Forest growth and water use;
- Vegetation carrying capacity of water resources;
- Coupled climate–landform–soil–vegetation–water processes;
- Integrated forest–water management.

Guest Editors

Prof. Dr. Yanhui Wang

Ecology and Nature Conservation Institute, Chinese Academy of Forestry, Beijing, China

Dr. Zebin Liu

Ecology and Nature Conservation Institute, Chinese Academy of Forestry, Beijing, China

Deadline for manuscript submissions

30 January 2026



Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/189257

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

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





Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



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



About the Journal

Message from the Editor-in-Chief

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia,
I-25121 Brescia, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank:

JCR - Q2 (Forestry) / CiteScore - Q1 (Forestry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.1 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).