

Special Issue

Water Cycle and Energy Balance Measurements in Forests

Message from the Guest Editors

Forests cover approximately 30% of the Earth's land surface and provide critical ecological services to natural systems and humankind, including the regulation of the hydrological cycle and energy balance. Forests, as natural reservoirs and filters, can store, release, and purify water through their interactions with hydrological processes. Against the background of climate and human disturbance, the water cycle and energy balance have been deeply altered with the changes to forests. Therefore, measurements and modelling relating to hydrological and energy processes are urgently needed to obtain a better understanding of the ecological services of forests. This Special Issue plans to give an overview of the most recent advances in the field of water cycle and energy balance in global forests. Potential topics include, but are not limited to:

- Rainfall partitioning of forests
- Soil hydrology in forests
- Runoff, interflow or streamflow
- Evapotranspiration in forests
- Energy balance measurements in forests
- Plants' physiological responses to drought
- Remote sensing measurement for forests
- Water resources of forests
- Forest management
- Urban forests

Guest Editors

Dr. Zhiyun Jiang

Dr. Li Wei

Dr. Lei Liu

Dr. Junqi Wei

Deadline for manuscript submissions

closed (31 July 2024)



Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/156620

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).