Special Issue

Conversion of Forest to Other Land Uses: Consequences in Greenhouse Gas Fluxes

Message from the Guest Editor

Forest ecosystems play a pivotal role as the largest carbon sink, significantly influencing the global redistribution of anthropogenic CO2 emissions. Their capacity for carbon sequestration not only regulates current atmospheric carbon levels but also exerts a crucial influence on the trajectory of future climate change. Despite being hailed as a nature-based solution for mitigating climate change, forests are increasingly converted for purposes such as agriculture, residence, and renewable energy due to growing land demands. While deforestation is expected to alter CO2 and other greenhouse gas fluxes, comprehensive research data with broad spatial representation are essential to enhance our understanding of the changing global carbon budget. This Special Issue invites studies that compare greenhouse gas fluxes before, during, and after the conversion of forests to different land uses. Researchers are encouraged to share their findings through approaches such as:

- Direct measurements;
- Comparison of chronosequences;
- Modeling work;
- Synthesis of published data.

Guest Editor

Prof. Dr. Shih-Chieh Chang

Department of Natural Resources and Environmental Studies, Center for Interdisciplinary Research on Ecology and Sustainability, National Dong Hwa University, Hualien 97401, Taiwan

Deadline for manuscript submissions

closed (30 July 2024)



Forests

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.6



mdpi.com/si/193148

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

mdpi.com/journal/ forests





Forests

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.6



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).

