

Special Issue

Impact of Global Change on Soil Carbon Storage and Biogeochemical Cycles in Tropical Forest Ecosystems

Message from the Guest Editors

Over the last few years, responses of tropical forests to global change have received increasing attention. However, less attention was done on how global change, i.e. increased of drought, temperature, CO₂ and nitrogen (N) deposition, influences the belowground compartment, while it shows a main role in carbon (C) sink and biogeochemical cycles. In light of the recent COP21 Paris Agreement, it is essential to better understand the impacts of global change on soil C stock and storage to determine the level of climate mitigation required to achieve the agreed temperature goals. Tropical forests are currently subject to different antagonist processes which disrupt the soil C storage and alter the soil greenhouse gas (GHG) fluxes, creating a potential feedback mechanism for climate change. The articles in this special issue will contribute to increase our knowledge on the main environmental drivers, and their interactions, that are behind tropical forest soil functioning, including microorganism activities, stoichiometry diversity, soil-plant interactions and carbon storage mechanisms.

Guest Editors

Dr. Clément Stahl

INRA, UMR EcoFoG, CNRS, Cirad, AgroParisTech, Université des Antilles, Université de Guyane, 97310 Kourou, France

Dr. Laetitia Brechet

Department of Biology, Plants and Ecosystems research group (PLECO) at Centre of Excellence Global Change Ecology, University of Antwerp, Universiteitsplein 1, B-2610 Wilrijk, Belgium

Deadline for manuscript submissions

closed (31 January 2019)



Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/12945

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 16.8 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).