Special Issue

Carbon and Nutrient Accumulation and Decomposition in Forests

Message from the Guest Editors

Carbon and nutrient accumulation (stocks) by forest stands play a significant role in assessing the potential impacts of sustainable forest management and biogeochemical cycles in forest ecosystems. The quantitative evaluation of these stocks in forest stands is important because of the role of carbon sequestration in mitigating global climate change and supporting sustainable forest productivity. Estimates of carbon and nutrient stocks in forest stands can be made at global. national, regional, landscape, and stand scales. For example, the role of such stocks in forest stands is likely to vary on a stand scale because the nutrient conversion rates and carbon allocation mechanisms differ between tree species. Other factors, such as tree biomass, site conditions, and forest management practices, can result in variations in carbon and nutrient stocks on a temporal and spatial scale. This Special Issue deals with these processes based on field experiments, modeling, reviews, and highlights emerging technologies to evaluate carbon and nutrient accumulation, both aboveground and belowground, in forest stands. Studies focused on organic matter inputs and decomposition are also welcome.

Guest Editors

Prof. Dr. Choonsig Kim

Dr. Christopher Gough

Prof. Dr. Chris Peterson

Deadline for manuscript submissions closed (20 December 2021)



Forests

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.6



forests

mdpi.com/si/63300

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

mdpi.com/journal/





Forests

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.6



forests



About the Journal

Message from the Editor-in-Chief

Forests (ISSN 1999-4907) is an international and crossdisciplinary, 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).