



Implications for Soil Respiration in Forest Carbon Sequestration

Guest Editors:

Dr. Haibo Lu

Dr. Bingwei Zhang

Dr. Lingyan Zhou

Dr. Yi Wang

Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editors

Dear Colleagues,

As the largest carbon efflux from terrestrial ecosystems to the atmosphere, soil respiration is essential to the global carbon balance. In this Special Issue on “Implications for Soil Respiration in Forest Carbon Sequestration”, we will report new insights of soil respiration interacting with forest diversity, root functional traits and soil microbial composition under global change, and new estimation of global/regional soil respiration and its components by machine learning and terrestrial ecosystem models.

Potential topics include, but are not limited to:

1. New understanding of the interplay between forest diversity and soil respiration;
2. New advances of soil respirations in response to global change;
3. Biogeochemical mechanisms between soil respiration and soil organic carbon composition;
4. Interactive effects of root functional traits and microbial composition on soil respiration;
5. Data-driven estimation of global/regional soil respiration and its components;
6. Improvements of terrestrial ecosystem models;
7. Uncertainty in estimating soil respiration at the local, regional and global scale.





forests



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa

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

Message from the Editorial Board

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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

Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

Contact Us

Forests Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/forests
forests@mdpi.com
X@Forests_MDPI