





an Open Access Journal by MDPI

Tree Growth and Physiological Properties under Ongoing Global Climate Change

Guest Editors:

Dr. Jakub Černý

Forestry and Game Management Research Institute, Research Station at Opočno, Na Olivě 550, 517 73 Opočno, Czech Republic

Prof. Dr. Petr Maděra

Department of Forest Botany, Dendrology and Geobiocoenology (FFWT), Mendel University, Zemedelska 1, 61300 Brno, Czech Republic

Dr. Zdeněk Patočka

Department of Forest Management and Applied Geoinformatics (FFWT), Mendelova Univerzita v Brne, Brno, Czech Republic

Deadline for manuscript submissions:

31 August 2024

mdpi.com/si/179530

Message from the Guest Editors

It is known that forest ecosystems, as a significant sink of atmospheric carbon, play a pivotal role in the global carbon cycle, especially under ongoing global climate change (GCC). GCC, characterized by weather and climatic that primarily include increasing anomalies temperatures and changes in the precipitation distribution during the growing season, significantly affect the provision of forest ecosystem services. GCC also increases forest ecosystems' vulnerability to abiotic and biotic stressors. Therefore, forest adaptation measures promoting tree/ecosystem resistance, resilience, vitality, growth, stability, and sustainability of material and energy fluxes are necessary to ensure secure and sustainable producing and non-producing forest functions.

New original research and review papers devoted to "carbon forestry" worldwide will be appreciated and are encouraged to be published in this Special Issue. Potential topics:

- Adaptation strategy;
- Anatomical/Physiological/Morphological adaptability;
- Carbon sequestration;
- GCC mitigation;
- Multiple ecosystem services;
- Resource use;
- Resilience/Resistance of tree species;
- Sustainable forest management.









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