



Impacts of Climate Change on Tree Physiology and Responses of Forest Ecosystems

Guest Editor:

Dr. Mariangela Fotelli

Hellenic Agricultural
Organization-Demeter, Forest
Research Institute, Vasilika, 570
06 Thessaloniki, Greece

Deadline for manuscript
submissions:

closed (15 April 2021)

Message from the Guest Editor

Climate change-driven events, as heat waves, prolonged droughts, and floodings, are evident and characterised by noticeable intensity, frequency, and spatial distribution. However, forest trees may develop remarkable physiological mechanisms to cope with challenging environmental regimes caused by global warming, rising atmospheric CO₂, fluctuating water availability, elevated N depositions, and others. Whether physiological resilience and resistance on the tree level result in ecophysiological responses ensuring plasticity of forest ecosystems to the ongoing climate change or if forests may be severely impacted by climate change are core questions of current forest research.

This Special Issue of *Forests* aims at exploring the progress on key aspects of tree physiology and forest ecophysiology in light of climate change. We welcome review articles and original research papers from the leaf to the ecosystem level, based on experimental, theoretical, or modeling approaches.





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