



*forests*

an Open Access Journal by MDPI



## Ozone Impacts on Forests

Guest Editors:

**Dr. Alessandra De Marco**

Department of Sustainability,  
Italian National Agency for New  
Technologies, Energy and  
Sustainable Economic  
Development (ENEA), Via  
Anguillarese 301, 00123 Rome,  
Italy

**Dr. Pierre Sicard**

ARGANS 260 route du Pin  
Montard, 06904 Sophia-Antipolis,  
CEDEX, France

Deadline for manuscript  
submissions:

**closed (1 March 2019)**

### Message from the Guest Editors

Air pollution and climate change are identified as major issues affecting European society. Tree species can respond differently to climate change and air pollution, depending on several tree features, such as morphological, physiological, and chemical functional traits of leaves, phenotypic plasticity, plant phenology, and environmental conditions. Furthermore, several biotic and abiotic stressors in various geographic areas are involved in the intra-specific selection of plants that survive environmental stress by stress avoidance or tolerance. Tropospheric ozone (O<sub>3</sub>) is the most widespread and harmful pollutant to trees. The ability to avoid (stomatal regulation) and/or turn on tolerance mechanisms (activation of scavenging mechanisms) is diverse and specific among plant species, and it characterizes the response to O<sub>3</sub> oxidative stress. Different provenances might respond differently to O<sub>3</sub>. We encourage studies from all fields, including experimental studies, monitoring observations, and modeling approaches to contribute to this Special Issue in order to promote knowledge for the identification of spatial and temporal behaviors in forests responses to O<sub>3</sub> oxidative stress.



[mdpi.com/si/15687](https://mdpi.com/si/15687)

# Special Issue



# 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, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

mdpi.com/journal/forests  
forests@mdpi.com  
X@Forests\_MDPI