

## Special Issue

# Effects of Climate Change and Air Pollutants on Forest Tree Species

### Message from the Guest Editor

Forest tree species can be regarded as life-support equipment because they can provide the oxygen necessary for respiration to living organisms, alleviate global warming by the absorption and fixation of atmospheric CO<sub>2</sub>, and purify a polluted atmosphere by the absorption and/or adsorption of air pollutants. However, anthropogenic emission of CO<sub>2</sub> and air pollutants into the atmosphere causes climate change, as well as adverse effects on many forest tree species all over the world. This means that we are turning off this life-support equipment by ourselves. For sustainable development, therefore, we must protect forest tree species against climate change and air pollution. This Special Issue is focused on the effects of climate change, such as elevated air temperature and atmospheric CO<sub>2</sub> concentration, and air pollutants, such as ozone, acid deposition, and aerosols on forest tree species, and case studies on relationships between climate change and/or air pollution and forests. I hope that this Special Issue will contribute, both to an increased awareness of climate change and air pollution problems, and to the protection of forest tree species against environmental stress.

### Guest Editor

Prof. Dr. Takeshi Izuta

Institute of Agriculture, Tokyo University of Agriculture and Technology,  
Fuchu, Tokyo 183-8509, Japan

### Deadline for manuscript submissions

closed (31 March 2020)



## Forests

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/si/17325](https://mdpi.com/si/17325)

*Forests*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[forests@mdpi.com](mailto:forests@mdpi.com)

[mdpi.com/journal/  
forests](https://mdpi.com/journal/forests)





# Forests

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/journal/  
forests](https://mdpi.com/journal/forests)



## About the Journal

### Message from the Editor-in-Chief

*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.

---

### 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).