



*forests*

an Open Access Journal by MDPI



## Quantitative Forest Management to Build Adaptive Capacity against Climate Change and Forest Disturbances

Guest Editor:

**Dr. Steve Chhin**

Division of Forestry and Natural  
Resources, West Virginia  
University, 322 Percival Hall, 1145  
Evansdale Dr, Morgantown, WV  
26506, USA

Deadline for manuscript  
submissions:

**closed (25 April 2019)**

### Message from the Guest Editor

The productivity and health of forest ecosystems in the 21st century will be threatened by the direct effects of climate change. Furthermore, climate change is also expected to increase the incidences and severity of disturbance agents, which in turn can reduce tree productivity and increase tree mortality in forests. It is unclear whether different tree populations will be able to cope with environmental change, and there is growing concern that the unprecedented rate of climate change will very likely exceed the ecological, adaptive capacity of many tree species. It is essential to address these environmental challenges in a proactive manner by identifying effective forest management practices that have the capacity to promote resiliency to environmental change. Effective adaptation to climate change and pressing forest health disturbances also requires effective methods of long-term monitoring and early detection of these concerns. This Special Issue welcomes studies that utilize quantitative monitoring and modelling approaches to examine how forest management practices can help build adaptive capacity against the interactive impacts of climate change and forest disturbances.



[mdpi.com/si/16713](https://mdpi.com/si/16713)

# 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](http://www.mdpi.com)

[mdpi.com/journal/forests](http://mdpi.com/journal/forests)  
[forests@mdpi.com](mailto:forests@mdpi.com)  
[X@Forests\\_MDPI](https://twitter.com/Forests_MDPI)