

Special Issue

Forest Ecosystem Resilience: Stomatal Regulation and Ecophysiological Responses to Disturbances

Message from the Guest Editors

The ecosystems of forests are severely affected by environmental stressors such as drought, heat, and land-use change, and their resilience largely depends on the ecophysiological responses of plants, particularly stomatal regulation. Stomata control gas exchange and water loss through leaves in response to extreme conditions. This Special Issue aims to provide an overview of the most recent advances in ecophysiological mechanisms and stomatal regulation that underpin forest resilience under both abiotic and biotic stresses. Overall, this Special Issue seeks to present selected contributions on advances in stomatal responses, signaling networks, hydraulic traits, and physiological trade-offs in forest species exposed to drought, heat, salinity, and other environmental disturbances. Areas of interest include, but are not limited to, the following potential topics:

- Stomatal regulation in plants;
- Plant resilience strategies;
- Leaf hydraulics in forest plants;
- Adaptive plasticity;
- Plant physiological trade-offs;
- Forest ecosystem recovery dynamics;
- Drought impact;
- Heat stress.

Guest Editors

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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.

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