

Special Issue

Physiological Responses of Woody Plants to Elevated CO₂, Drought, and Climate Variations from Local to Global

Message from the Guest Editors

This Special Issue will explore the physiological responses of woody plants to environmental stressors associated with climate variations, including elevated CO₂ levels, droughts, and other changes in biogeochemical cycles. It will highlight research that enhances our understanding of tree resilience, adaptation mechanisms, and the ecological consequences of physiological changes across different latitudes and under-represented ecosystems. Topics of interest include, but are not limited to:

- Physiological responses of woody plants to elevated CO₂, drought, temperature changes, and other climate-related stressors;
- Interactions between physiological processes and biogeochemical cycles;
- Predictive models for forest health under climate change;
- The role of atmospheric pollutants and greenhouse gases in altering tree growth, photosynthesis, and water-use efficiency;
- Conservation and adaptive management strategies for forest resilience;
- Use of isotopes and dendrochronology, dendroclimatology, and dendroecology in woody plants.

Guest Editors

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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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