

## Special Issue

# Forest Resilience to Extreme Climatic Events

### Message from the Guest Editors

Climatic anomalies—including intense droughts, heatwaves, cold spells, and frosts—disrupt woody plant physiological processes and compromise stand-scale productivity. When these disturbances exceed critical intensity or frequency thresholds, they may catalyze forest die-off and growth decline and alter structure, composition, and successional patterns. Understanding tree species' adaptive mechanisms to such stressors is essential in terms of developing robust predictive models and targeted conservation strategies, particularly for peripheral populations at biogeographic distribution limits, such as xeric rear-edge stands, where climate-driven disturbances are projected to intensify. While research on tree stress responses has expanded significantly in recent years, key knowledge gaps persist. This Special Issue aims to address these gaps by exploring the following topics of interest:

- Advanced metrics to quantify post-disturbance recovery dynamics;
- Abiotic and biotic drivers of individual tree stress tolerance;
- Management interventions to enhance ecosystem resilience;
- Species- and ecoregion-specific vulnerability under climatic extremes.

### Guest Editors

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### Deadline for manuscript submissions

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## Forests

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