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Tree Growth and Physiological Properties under Ongoing Global Climate Change

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Deadline for manuscript submissions:
closed (31 August 2024)

Message from the Guest Editors

It is known that forest ecosystems, as a significant sink of atmospheric carbon, play a pivotal role in the global carbon cycle, especially under ongoing global climate change (GCC). GCC, characterized by weather and climatic anomalies that primarily include increasing air temperatures and changes in the precipitation distribution during the growing season, significantly affect the provision of forest ecosystem services. GCC also increases forest ecosystems' vulnerability to abiotic and biotic stressors. Therefore, forest adaptation measures promoting tree/ecosystem resistance, resilience, vitality, growth, stability, and sustainability of material and energy fluxes are necessary to ensure secure and sustainable producing and non-producing forest functions.

New original research and review papers devoted to "carbon forestry" worldwide will be appreciated and are encouraged to be published in this Special Issue. Potential topics:

- Adaptation strategy;
- Anatomical/Physiological/Morphological adaptability;
- Carbon sequestration;
- GCC mitigation;
- Multiple ecosystem services;
- Resource use;
- Resilience/Resistance of tree species;
- Sustainable forest management.

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Special Issue

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Message from the Editor-in-Chief

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