

Special Issue

Growth and Photosynthetic Responses of Seedlings Under Climate Change in Forests

Message from the Guest Editor

Forests play a vital role in regulating the global climate, sequestering carbon, and preserving biodiversity; however, the rising temperatures, shifting precipitation patterns, and increasing atmospheric carbon dioxide levels resulting from climate change have come to present significant challenges to forest regeneration and resilience. Seedlings, as the most vulnerable stage in a tree's life cycle, are especially sensitive to these environmental changes—their growth and photosynthetic performance under changing conditions will shape the future composition and stability of forest ecosystems. This Special Issue brings together recent research advances in our understanding of the physiological and ecological responses of forest seedlings to climate change. By focusing on photosynthesis, resource allocation, and adaptive mechanisms, the contributions in this volume aim to clarify the key processes that influence seedling survival and development. The insights gained will inform reforestation efforts, forest management practices, and climate adaptation strategies.

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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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