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Assessment of Climate Change Factors Affecting Wood Growth and Timber Quality

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Message from the Guest Editors

While the changing climate's impacts on some ecological processes are well-established, the consequences on wood formation and timber quality are not as clear. Then how might wood biology help to disentangle the effect of global change on future wood quality? How might wood technologists use biological inputs to manage future innovative and sustainable wood chains? This Special Issue will offer a platform for stimulate the development of new approaches to address climate-related challenges through the perspective of wood biology and technology nexus. We encourage contributions analyzing the growth trends of forests in general and trees in particular, including cultivated stands. Particular attention will be paid to wood production and the possible changes in wood material quality, underlining that wood may represent a possible instrument in tackling climate change itself, e.g., in the building sector. Changes in wood density, mechanical properties or chemical composition could have a considerable impact in the wood products. Studies deepening the knowledge on the effectiveness of forest trees as carbon sinks in relation to growth conditions will also be welcomed.



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Special Issue



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