Special Issue

Fast-Growing Forest Plantations for Moving Forward to a Low Carbon Bioeconomy

Message from the Guest Editor

Developing a circular bioeconomy based on the sustainable use of biological resources appears to be the best way of responding to challenges associated with global change. Wood is a key resource used to redirect the linear economy based on fossil resources to a circular bioeconomy. Forest plantations are not only an essential tool to cover the necessary supply of quality wood, but also to cover the supply of biomass, both for the production of bioenergy and for the generation of bioproducts. Improving the sustainability of forest plantations depends on advances made in different aspects of the process, including the suitability of the genetic material (breading and selection), design and management, an evaluation of the production and development of accurate estimation tools, as well as the valorization of sustainability in plantations (economic, social, and environmental) and of the ecosystem services provided. Potential topics include, but are not limited to:

- Suitable plant materials;
- Production quantification and prediction;
- Crop management to optimize production;
- Economic analyses;
- Ecosystem services.

Guest Editor

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