Special Issue

Poplar Biomass for the Bioeconomy: Production, Prediction and Sustainability

Message from the Guest Editor

Biomass constitutes one of the biological resources from which it is possible to develop the bioeconomy as a way of facing the challenges associated with climate change. That which originates from forest plantations, and specifically poplar biomass, constitutes a fundamental instrument for obtaining a quality resource with spatial–temporal predictability as well as in relation to yields according to cultivation areas. To improve production, more accurate forecasting and the sustainability of the entire process are key elements. Optimizing production involves considering the breeding and selection of the most suitable plant materials, as well as the different processes involved in crop management. More accurate forecasting of crop biomass resources on a territory scale should be able to contribute to market stability. Finally, sustainability is a key element that encompasses numerous aspects that range from the adequacy of the land and the crop management practices that guarantee that sustainability to the valuation of the ecosystem services that these plantations can provide. Only from a holistic approach will it be possible to assess the biomass potential of poplar crops.

Guest Editor

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