

Special Issue

Miscanthus as a Sustainable Source of Biomass for Bioenergy and Biorenewable Products

Message from the Guest Editors

Miscanthus is a perennial low-input plant and is becoming increasingly important, with a cultivation area in Europe of over 20,000 hectares. The cultivation of miscanthus alone can support ecosystem services and achieve enormous carbon sequestration. This silicon-, lignin- and parenchyma-rich biomass is also of significant interest for a wide range of bioeconomic applications. According to the European Bioeconomy Strategy published on November 27, 2025, miscanthus could become even more important in the future, whether that is in the lead market of bio-based fibers or bio-based construction products. The aim of this Special Issue is to show that ecosystem services, extensive cultivation, and innovative products can be used and promoted simultaneously.

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