

Special Issue

Biomass Energy Resources: Feedstock Quality and Bioenergy Sustainability

Message from the Guest Editors

Renewable energies play a key role in the transition toward a world where sustainability, particularly environmental, is increasingly viewed as an unavoidable goal. In this context, dedicate and residual biomass plays a leading role in heat and power production. Due to an increased interest in sustainability and circular economy, in the last few years, more attention has been paid to the use of residual biomass which, however, is characterized by low quality and heterogeneity.

Biomass properties and sustainability help to define a new way of understanding the quality of biofuels. This change of perspective implies a decisive role for policy decision, development of technical regulations and, in general, in the operational choices of biomass supply chain stakeholders. Thus, a research effort is required to exploit the available biomass materials, especially less traditional ones, through the development of innovative production processes and measurement systems, to produce sustainable biofuels and bioenergy.

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