

Special Issue

Research on Conversion and Utilization of Waste Biomass

Message from the Guest Editors

The valorization and utilization of biomass have taken a leading role on the international stage. This Special Issue on “Research on Conversion and Utilization of Waste Biomass” focuses on innovative research on the conversion and use of waste biomass, with an emphasis on both its energy and non-energy applications.

Biomass represents a renewable and diverse resource of plant and animal origin, whose versatility allows its application in key sectors such as the production of biofuels, biochemicals, bioproducts, advanced materials, and functional additives. This Special Issue aims to gather cutting-edge research. Key topics include, but are not limited to, the following: mechanical, thermal, chemical, and biochemical conversion of biomass; processes for sustainable biofuels; integration, optimization, and simulation of biorefineries; logistics processes for the recovery and utilization of waste biomass; production, extraction, and development of biopolymers, biochemicals, and nanomaterials from biomass; modeling, simulation, and life cycle analysis of biomass-based technologies.

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