

Special Issue

Modeling of Thermochemical Processes for Efficient Feedstock Utilization

Message from the Guest Editors

To address the issues related to the problems of energy production and the unequal distribution of fossil fuel reserves, it is crucial to more efficiently utilize a variety of feedstocks that are more available, particularly raw biomass, but also the organic component of waste from industrial production or MSW. The thermochemical conversion processes of common feedstocks are frequently studied. In spite of this, a thorough procedure of characterizing each type of mentioned raw material is required, as these are considered waste materials of organic origin and require adaptation to a specific process of thermochemical conversion due to their diversity and specificity. Furthermore, the detailed modeling of the thermochemical conversion for a particular feedstock is a crucial step in making the overall energy or material transformation efficient and sustainable. This means that the materials are not necessarily a source of energy and that other, more advantageous, efficient, and ultimately, economically more favorable, ways of converting them can be identified. This allows for the production of a broader range of value-added products that may be made available to consumers.

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