Special Issue

Efficient Development and Utilization of Biomass

Message from the Guest Editor

Biomass feedstocks cover an extremely broad range of materials, including agricultural and herbaceous biomass, wood and woody biomass, aquatic biomass, animal and human biomass waste, and industrial biomass wastes, as well as bio-based materials, which are already characterized by a remarkable variation within each group and, in particular, an even more significant variation between each group. All the thermochemical conversion processes must be analyzed, adapted, and controlled to generate a reliable plant operation with respect to the variation of the feedstock properties. Therefore, specific classification methods of the feedstocks, novel process analysis, modelling, process coupling, and control mechanisms have to be implemented to ensure the trouble-free operation of the plants using biomasses, which means that these “flexible conversion plants” are able to utilize various biomasses in an optimal way. This Special Issue focuses on all aspects of biomass feedstocks, from their use in thermal conversion processes to their emissions and residual materials, which can be best described by understanding the feedstock–process relationship for biomass utilization.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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