

Special Issue

Sustainability in Biomass and Waste Fuels Utilization

Message from the Guest Editors

Biomass is plant- or animal-based material used for electricity production, heat production, or in various industrial processes. Biomass is converted into usable energy via combustion. Direct combustion is the most common biomass conversion technology. The development of new technologies will enable the production of secure and sustainable biomass supplies, clean and effective conversion processes, high-quality fuels, and optimally integrated solutions for households, services, industry, and district heating and cooling. Main research areas:

- Development and demonstration of lowest emission and highest efficiency residential biomass heating systems;
- Development of cost-efficient, sustainable supply of agrobiomass and forest biomass;
- (Thermal) upgrading of biomass to high grade fuels;
- Preparation of solid and recovered fuels and biogas from the biodegradable fraction of waste;
- Development of enhanced concepts for co-utilization biorefineries;
- Development of storage, drying, and logistics of solid biomass fuels and the improvement of its quality;
- Biomass-based hydrogen production via thermo-chemical and bio-chemical/biological hydrogen production pathways.

Guest Editors

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Editor-in-Chief

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