Special Issue

Sustainable Biofuels Production from Biomass

Message from the Guest Editors

In recent times, biofuels have been promoted as a sustainable energy alternative to fossil fuels as they could help to decrease negative climate change impacts and greenhouse gas (GHG) emissions from transportation. Biofuels produced from biomass sources through biodegradable techniques are receiving global attention from scholars and scientists. Biomass refers to organic materials which come from microorganisms, wood, plants, agricultural wastes, the dead parts of plants and animals, the waste material of plants and animals and others. Among the choices of renewable energy resources, the energy yielded from biomass can be directly employed for transport fuel in various nations. This could be more feasible in peak demand periods, and a practicable mode at other times. Increasing concern about the climate crisis is another essential aspect that has highlighted the ecological benefits of biomass utilization. Biofuel production and utilization are considered a carbon-neutral path as they are produced from biomass, which absorbs the majority of carbon dioxide released to the environment. Sustainability is a key concern when considering the adaptation of biomass to biofuels.

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