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Innovative Technologies for Energy/Resource Recovery from Biomass Wastes

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Deadline for manuscript submissions:
closed (30 September 2022)

Message from the Guest Editors

Dear Colleagues,

The global climate change and the demand for renewable energy pose a big challenge in the current solid waste treatment field. Thus, innovative technologies are urgently needed for energy/resource recovery from biomass waste treatment toward environmental and economic sustainability. Additionally, the biorefinery approach of recycling biomass-derived resources to replace fossil-based energy contributes to the aim of carbon neutrality. This Special Issue aims to provide a platform for global researchers to disseminate recent technological developments and engineering solutions in the areas of biomass waste treatment. Potential topics include but are not limited to: Anaerobic digestion; Solid waste management; Biofuels and biorefineries such as biogas production, biohydrogen production, life cycle assessment of biofuels, and microbial fuel cells; Biomass and feedstock utilization; Physicochemical and thermochemical processes for lignocellulosic and algal biomass; Chemical–physical processes to recover nutrients from biomasses; Nutrient recovery from biomasses: LCA and policy approach; Development of innovative pretreatment methods for biomass wastes.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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