



Recycling Biomass for Agriculture and Bioenergy Production

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Message from the Guest Editors

Biomass is a valuable organic resource that originates from plants and animals. All sorts of biomass have a high concentration of organic carbon, making it suitable for soil amendments, particularly for soil fertility restoration, soil erosion control, soil moisture conservation, carbon sequestration, and many more applications. In addition, biomass also contains all the essential plant nutrients. Therefore, some biomass has been historically used as biofertilizers from the beginning of agricultural activities when chemical fertilizer was not invented. Modern agriculture highly recommends using organic and inorganic sources of plant nutrients for crop production to maintain soil fertility, crop productivity, and agro-ecosystem sustainably.

Biomass produced by plant through photosynthesis process contains stored chemical energy from the sun. Therefore, biomass has been used as a source of energy throughout the world for long. There is a vast potential to use biomass as feedstock for bioenergy production for transportation purposes and for electricity generation to avoid carbon dioxide emissions from fossil fuel use.





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