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Biomass Supply Chain Logistics (BSCL): Advances in Bioenergy Engineering to Address Biomass Quality and Quantity Issues

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Message from the Guest Editors

Dear Colleagues,

The success of biofuel and biochemical industries relies on an economical and reliable biomass supply that meets quality standards. Addressing these issues is critical for productive and sustainable biorefinery operation. Unit operations in biomass supply chain logistics (BSCL), methods including harvesting and pretreatment technologies, improve biomass properties for conversion. preprocessing like size reduction and densification is crucial for meeting specifications. Energyefficient technologies can address storage and handling challenges. High-temperature drying and thermal methods enhance biomass properties. Ash content poses challenges reauires cost-intensive removal Chemical pretreatment modifies ash composition and aids in mechanical preprocessing. Research on BSCL is in early stages, and capturing advances is crucial. This Special Issue focuses on technology, unit operations, and their impact on quality and cost in BSCL scenarios. It highlights challenges in supplying quality biomass to biorefineries for efficient and sustainable operation.

Dr. Jaya Shankar Tumuluru Dr. Igathinathane Cannayen *Guest Editors*











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Message from the Editor-in-Chief

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