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

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Deadline for manuscript  
submissions:

**closed (17 April 2024)**

### **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), including harvesting methods and pretreatment technologies, improve biomass properties for conversion. Mechanical preprocessing like size reduction and densification is crucial for meeting specifications. Energy-efficient technologies can address storage and handling challenges. High-temperature drying and thermal methods enhance biomass properties. Ash content poses challenges and requires 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 Cannayan

*Guest Editors*



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## Message from the Editor-in-Chief

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