

Special Issue

Advances in Biomass Preprocessing and Pretreatments and Valorization to Energy

Message from the Guest Editor

Biomass physical properties and chemical composition impact biofuels production. Particle size, density, chemical composition of biomass are important specifications for both biochemical and thermochemical conversion pathways. Also these properties influence the feeding, handling, storage and transportation. Size reduction of biomass using grinding equipment helps to meet the desired specifications in terms of particle size. Densification ensures the biomass has a uniform format with consistent physical properties which significantly influence storage, transportation and handling characteristics. Torrefaction, which is a thermal pretreatment method, makes biomass brittle making it easier to grind, changes the chemical composition, and increases the net energy content of the biomass. The emphasis of this Special Issue is to examine the advances in biomass size reduction, densification and torrefaction technologies and their impact on physical, chemical and energy properties for biofuels production.

Guest Editor

Dr. Jaya Shankar Tumuluru

Southwestern Cotton Ginning Research Laboratory, United States
Department of Agriculture, USDA-ARS, Las Cruces, NM 88005, USA

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

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Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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