

Special Issue

Process Intensification for Biomass Conversion to Next-Generation Biofuels

Message from the Guest Editors

Biofuels play a vital role in the transition toward economies based on renewable raw materials. However, the major negative social impact of first-generation biofuels must be sorted. Next-generation biofuels could replace the fossil-based fuel supply without competing for food production. Another roadblock to overcome is the risks involving satisfying demand at retail prices while decreasing operating costs and environmental footprint. Process intensification is undoubtedly the way to turn novel advances into feasible technologies at an industrially relevant scale. This Special Issue on “Process Intensification for Biomass Conversion to Next-Generation Biofuels” seeks high quality works focusing on the following topics:

- Continuous biomass gasification;
- Catalytic conversion of biomass;
- Intensification strategies for renewable hydrogen production;
- Second and third-generation bioethanol production;
- Valorization of organic industrial waste or municipal solid waste.

Guest Editors

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