



## Advanced Technology of Biomass Gasification Processes

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### Message from the Guest Editors

This Special Issue on “Advanced Biofuel Production from Biomass Gasification” aims to curate novel advances in the development and implementation of process intensification to address the longstanding challenges in improving syngas quality and process efficiency during biomass gasification. Topics include but are not limited to:

- Process intensification approaches for biomass gasification;
- The use of novel feedstocks for syngas production using gasification technology (e.g., municipal and industrial wastes; sludge);
- Intensified reactor design with multifunctionalities for biomass gasification;
- Application of functional materials (e.g., catalyst, adsorbent, selective permeable membrane) to condition syngas quality;
- Application of alternative energy sources (solar, electric field, microwave, plasma, high gravity) for biomass gasification;
- Syngas conversion to chemicals using syngas produced from biomass gasification;
- The development of techno-economic and life-cycle assessment models to estimate the economic and environmental impact of the proposed process.





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## Message from the Editor-in-Chief

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