

Special Issue

Sustainable Catalytic Conversion of Biomass

Message from the Guest Editors

This Special Issue welcomes submissions that explore innovative approaches and breakthroughs in biomass conversion, including but not limited to the following topics:

- Advanced biomass fractionation techniques that enhance downstream catalytic performance.
- Catalytic transformation of biomass-derived components (e.g., polysaccharides, chitin, lignin) into platform chemicals, pharmaceuticals, fine and specialty chemicals, functional polymers, and composites. Contributions focusing on specific catalytic steps such as dehydration or hydrodeoxygenation are also encouraged.
- Catalyst design and performance studies, including investigations into reusability, stability, and resistance to elements such as sulfur, nitrogen, and alkali metals.
- Life cycle analysis with a focus on catalyst sustainability and process efficiency.

We look forward to your contributions that highlight the exciting potential of biomass as a foundation for sustainable chemical production.

Guest Editors

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closed (31 March 2026)



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