

Special Issue

Advances in Biomass Conversion and Biorefinery Applications

Message from the Guest Editors

The articles featured in this Special Issue reflect the field's multidisciplinary nature, drawing on expertise in chemical engineering, biotechnology, environmental science, and industrial process optimization. Together, these contributions highlight the growing importance of biomass conversion technologies and their role in creating a circular economy, where waste is minimized, resources are utilized efficiently, and sustainable energy and materials are produced. In this Special Issue, original research articles and reviews are welcome. The scope of this Special Issue includes, but is not limited to, the following topics:

- Pretreatment process
- Reactor/bioreactor design
- Biorefinery: Conceptual design
- Biofuels: hydrogen, ethanol, butanol, etc.
- Bioproducts: bacterial cellulose, organic acid, among others.
- Circular bioeconomy
- Life cycle analysis
- Sustainability analysis

Guest Editors

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