

## Special Issue

# Conversion and Valorization of Biomass

### Message from the Guest Editors

Biomass represents a renewable and diverse source of valuable products, including organic matter from plants, animals, and microorganisms. In addition, the versatility of biomass allows its application in strategic sectors. Moreover, biomass valorization offers a multidisciplinary approach to addressing the most demanding global challenges, including waste management, climate change, and sustainable development. Key topics include, but are not limited to, the following:

- Biomass Feedstocks and Characterization: Alternative biomass sources; Biomass waste valorization; Pre-treatments and characterization of biomass.
- Conversion Technologies: Thermochemical conversion; Biochemical conversion; Catalytic conversion; Hydrothermal processing; Emerging technologies.
- Biomass applications (including waste): Fuels; Chemicals; Biomaterials; Innovative applications.
- Biorefinery Concepts: Integrated biorefineries; Bio-based products; Sustainable biorefinery approaches.
- Sustainability and Environmental Impact: Life cycle assessment; Green processes; Circular economy.

### Guest Editors

Prof. Dr. David Ulises Santos Ballardo

Prof. Dr. Miguel Betancourt-Lozano

Dr. Raquel Barrena

### Deadline for manuscript submissions

31 March 2026



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*Processes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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