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

Prof. Dr. Carlos Eduardo Molina-Guerrero

División de Ciencias e Ingenierías, Departamento de Ingenierías Química, Electrónica y Biomédica, Universidad de Guanajuato, Lomas del Bosque 103, Col. Lomas del Campestre, Guanajuato, León 37150, Mexico

Dr. Ivan Salmerón Ochoa

Department of Chemical and Biological Engineering, South Dakota Mines, 501 E. Saint Joseph Street, Rapid City, SD 57701, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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