

## Special Issue

# The Role of Biorefineries in Circular Economy

### Message from the Guest Editors

Energy markets and our dependence on fossil fuels worldwide have been facing economic, environmental, and technological challenges. Nowadays, more than ever, countries must focus on their energy independence and shift from utilizing fossil fuels as the primary source of energy, platform molecules, and the main driver of current food systems. It is crucial to promote the development and adoption of sustainable, cost-effective, and reliable alternative feedstocks for biofuels, energy carriers, polymers, functional food and feed ingredients, as well as biofertilizers. Moreover, non-food feedstocks, aquatic cultivated feedstocks, and genetically modified organisms can successfully produce electricity, heat, and fuel while treating municipal and industrial sidestreams, key aspects to reaching a sustainable circular economy.

This Special Issue addresses the limitations and challenges of global bulk and specialty chemicals production and their utilization. It promotes and investigates the utilization of bioresources and biotechnologies to produce value-added functional products and biochemicals in all stages of the supply chain (upstream, production, and downstream processes).

---

### Guest Editors

Dr. Lisandra Rocha Meneses

Dr. Nemailla Bonturi

Dr. Boboescu Iulian Zoltan

Dr. Clelton A Santos

---

### Deadline for manuscript submissions

closed (31 March 2023)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/118463](https://mdpi.com/si/118463)

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

[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)



## About the Journal

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
Institute of Technology, Oshawa, ON L1G 0C5, Canada

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)