

## Special Issue

# Recent Trends in Biotechnology and Circular Economy: Driving Sustainable Innovations in the Bioeconomy

### Message from the Guest Editors

This Special Issue explores the expanding role of biotechnology in transforming sustainable waste management and advancing the circular bioeconomy, with a focus on recent innovations in integrating biotechnological processes into waste valorization. These advancements harness biotechnology to convert waste materials into valuable products, promoting both environmental sustainability and economic growth. We are delighted to invite you to contribute to this Special Issue, which will explore various areas, including the following:

- Biological mechanisms for transforming agricultural waste into valuable products;
- Biotechnological approaches to valorizing industrial waste streams for a circular economy;
- Engineered microorganisms for efficient resource recovery from waste streams;
- Optimizing waste-to-value chains: incorporating biotechnology into current waste management systems;
- Techno-economic considerations in scaling up biotechnological waste valorization.

---

### Guest Editors

Dr. Oseweuba Valentine Okoro

Dr. Amin Shavandi

Dr. Lei Nie

---

### Deadline for manuscript submissions

closed (30 September 2025)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 7.7**



[mdpi.com/si/218750](https://mdpi.com/si/218750)

*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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon  
School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

---

### 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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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