



Climate Change and Circular Bioeconomy: Old Challenges and New Opportunities for Environmental Biotechnology

Guest Editors:

Dr. Silvio Matassa

Department of Civil, Architectural and Environmental Engineering, University of Naples Federico II, via Claudio 21, 80125 Naples, Italy

Prof. Willy Verstraete

Faculty Bio-Engineering Sciences, Laboratory Microbial Ecology and Technology; LabMET, 9000 Ghent, Belgium

Deadline for manuscript submissions:

closed (30 July 2022)

Message from the Guest Editors

Dear Colleagues,

This Special Issue invites research papers, critical reviews and feature articles that critically examine biological resource recovery and valorization through processes such as carbon capture and utilization (CCU), nutrient recovery and upcycling or wastewater treatment and reutilization. To unlock their real circular bioeconomy potential, the investigated processes should be aimed at sourcing added-value products that can find real-life applications and that are appealing for the market. A non-exclusive list of such products comprises single-cell protein for feed and food applications, biofertilizers and biostimulants for agriculture, as well as bio-based polymers for renewable materials. Besides the mere scientific research aspects, the invited studies will have to also embrace multidisciplinary considerations and analyses of the environmental, economic and social implications of the proposed research and innovations.

- environmental biotechnology
- resource recovery
- added-value products
- techno-economic feasibility





an Open Access Journal by MDPI

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

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.

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, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
X@Sus_MDPI