

Special Issue

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

Message from the Guest Editors

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

Guest Editors

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Deadline for manuscript submissions



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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.

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