



Exploitation of Wastes and Residues via Biological Processes in the Concept of Bioeconomy

Guest Editors:

Dr. Ioanna Ntaikou

Foundation for Research and
Technology, Institute of Chemical
Engineering Sciences (FORTH/
ICE-HT), Patra, Greece

Dr. Georgia Antonopoulou

Department of Sustainable
Agriculture, University of Patras, 2
Georgiou Seferi St., Agrinio,
Greece

Dr. Athanasia

Tekerlekopoulou

Department of Sustainable
Agriculture, School of Agricultural
Sciences, University of Patras,
30100 Agrinio, Greece

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editors

Regarding the circular economy concept, efforts should be focused on the minimization of wastes generation by elongating the lifetime of materials through actions such as recycling and reuse. However, the generation of wastes and residues is inevitable at some point, and as such a new concept of circular economy—the bioeconomy—has recently gained great attention. In a bioeconomy, the wastes and residues of anthropogenic activities are approached as resources of valuable molecules and compounds via various methodologies such as extraction, recovery, and conversion, thus tackling environmental and economic issues at the same time.

This Special Issue aspires to gather novel research papers covering the topic of exploitation/valorization of wastes and residual biomass using biological processes. The target feedstocks include but are not necessarily limited to municipal, agroindustrial, and industrial wastes and wastewaters, agricultural and forestal residues etc. could be fractionated, bioconverted, or biotransformed for the generation of high-added-value substances, compounds, and molecules





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and
Natural Resources, Ohio State
University, Columbus, OH 43210,
USA

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.

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](#), [CAPus](#) / [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](#)