

IMPACT FACTOR 3.0



an Open Access Journal by MDPI

Residual Resource Recovery for Bioenergy and Biomolecule Production in a Circular Economy: Sustainable Process Design and Technoeconomic Feasibility

Guest Editors:

Dr. Panagiotis Tsapekos

Department of Chemical and Biochemical Engineering, Technical University of Denmark, 2800 Lyngby, Denmark

Dr. Merlin Alvarado-Morales

Department of Chemical and Biochemical Engineering, Technical University of Denmark, 2800 Lyngby, Denmark

Deadline for manuscript submissions:

closed (17 February 2023)

Message from the Guest Editors

Dear Colleagues,

The main aim of this Special Issue is to reveal efficient and sustainable approaches to developing the next generation of bioenergy, biochemical, and biorefinery systems.

The scientific areas to be covered in this Special Issues may include, but are not limited to:

- Novel biomass pretreatment methods;
- Bioenergy production including gaseous (biogas, biomethane, etc.), liquid (e.g., methanol) and solid products (e.g., refuse-derived fuel);
- Biomolecule production from residual resources;
- Novel downstream process design;
- Soil amendment with digestate;
- Nutrient removal and recovery;
- Deciphering microbial communities in bioprocesses including the fate of contaminants (pathogens, antibiotic-resistant bacteria, etc.);
- The biodegradation of microplastics;
- The mathematical modeling, optimization, and control of bioprocesses;
- The sustainability evaluation of biotechnological processes;
- The ecoefficiency assessment of biomass conversion processes.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us