

Special Issue

Advanced Effluents Bioprocessing for Nutrients and Energy Recovery

Message from the Guest Editors

This Special Issue aims to gather cutting-edge research on innovative technologies, strategies, and approaches for wastewater management, going beyond efficient resource recovery. The topics of interest include, but are not limited to:

- Advanced biochemical processes for nutrient removal and recovery from effluents;
- Biotechnological approaches for energy recovery from wastewater or treatment products such as waste sludge;
- Resource-oriented sanitation systems and circular economy concepts;
- The utilization of by-products and residuals from effluent treatment for energy or nutrient recovery;
- Modeling, metabolic pathways, optimization, and control strategies for efficient and sustainable effluent management;
- Innovative approaches to minimize and manage effluent generation;
- Integrated bioprocess and biosystems for the simultaneous treatment of water, energy, and nutrients;
- Life cycle assessment and environmental impact evaluation of effluent management approaches;
- Case studies and success stories on the implementation of advanced effluent bioprocessing practices.

Guest Editors

Prof. Dr. Petros Samaras

Laboratory of Technologies of Environmental Protection and Utilization of Food By-Products, Department of Food Science and Technology, International Hellenic University, Thessaloniki, Greece

Dr. Dimitra Banti

Laboratory of Technologies of Environmental Protection and Utilization of Food By-Products, Department of Food Science and Technology, International Hellenic University, GR-57400 Thessaloniki, Greece



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/192444

Bioengineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)





Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Biomedical) Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2024).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.