



## Biorefinery of Wastewater Treatment Plant: The Pathway to Sustainable Development

Guest Editors:

**Prof. Dr. Rolando Chamy**

Escuela de Ingeniería  
Bioquímica, Facultad de  
Ingeniería, Pontificia Universidad  
Católica de Valparaíso,  
Valparaíso 2340000, Chile

**Dr. Estela Tapia-Venegas**

Departamento de Ingeniería para  
la Sostenibilidad, Facultad de  
Ingeniería, Universidad de Playa  
Ancha, Valparaíso 2340000, Chile

Deadline for manuscript  
submissions:

**closed (15 January 2024)**

### Message from the Guest Editors

Wastewater has great potential to create a circular economy through the recovery and efficient use of resources and the reduction of emissions. Treated water, biosolids, biomethane and nutrients, among other resources, can be recovered from wastewater.

WWTPs are a key infrastructure and a major point of interest for the development of circular economies. The configuration of a WWTP depends on the geographical region, population served and the respective quality and quantity of wastewater to be treated.

The purpose of the special issue is to know the current state and technological advances that it will allow a total transforming and/or improve a wastewater treatment plant into a product and energy producer plant using wastewater as raw material, under the concept of biorefinery. Please, to enter a title, authors and a tentative 200-word abstract before submit full paper. In turn, the deadline to submit the full paper is August 2023.

- water treatment plants
- WWTPs
- active sludge
- nutrient recovery
- energy recovery
- sustainability
- biorefinery
- circular economy





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, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](#)