

## Special Issue

# Sustainable Solutions for Wastewater Treatment Management—Microbial Ecology and Biotechnological Applications in the Context of Circular Economy

### Message from the Guest Editors

Dear Colleagues:

The effective treatment of the produced wastewater and the reduction of water scarcity are closely linked to the effectiveness of the applied treatment methods (ideally sustainable nature-based) and the possibility of reusing the discharged water when necessary. Additionally, the presence of bioactive substances in various types of wastewater and the enzymatic activity of certain microbial species offer a cost-effective and environmentally friendly solution for the degradation of pollutants. This itself contains a growing interest and a broad research field towards the exploration and exploitation of the diverse biotechnological applications of specific groups of microorganisms. It also provides the possibility of treating the effluents of treatment systems as materials that are not discharged in the environment as waste, but instead are further used in a variety of applications, for example in agriculture.

We look forward to receiving your contributions.

---

### Guest Editors

Dr. Nikolaos Remmas  
Prof. Dr. Cristina Sousa Coutinho Calheiros  
Prof. Dr. Petros Gikas

---

### Deadline for manuscript submissions

closed (30 April 2025)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 8.9**



[mdpi.com/si/207528](https://mdpi.com/si/207528)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

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





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 8.9



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



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Steve W. Lyon

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

---

### 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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)