Special Issue

Innovations and Circular Economy Challenges Faced by Municipal Wastewater Treatment Plants

Message from the Guest Editors

Wastewater has still been recently perceived only as used water that should be subject to treatment to protect of the natural environment. The challenges faced in the scope include the search for innovative solutions for a reduction in the use of primary resources toward low-emission and zero-waste economy, with consideration of broadly defined economic and social aspects. A modern wastewater treatment plant is also expected to be self-sufficient in terms of energy and to implement technologies permitting removal from sewage of micropollutants such as pharmaceuticals, pesticides, or microplastic. The purpose of this Special Issue is to present the wastewater treatment plant as a multiplatform sustainable biorefinery that recycles organics, recovers energy, heat, and valuable resources such as phosphorus, nitrogen, poly-\(\sigma\)hydroxybutyalkanates, alginates, rare earth elements, cellulose, or water, while undertaking measures aimed at minimizing the occurrence of contaminants of emerging concern in the recovered resources and treated wastewater, and using life cycle assessment (LCA) in the assessment of the undertaken measures.

Guest Editors

Prof. Dr. Monika Żubrowska-Sudoł

Faculty of Building Services, Hydro and Environmental Engineering, Warsaw University of Technology, 00-661 Warsaw, Poland

Dr. Beata Karolinczak

Faculty of Building Services, Hydro and Environmental Engineering, Warsaw University of Technology, 00-661 Warsaw, Poland

Deadline for manuscript submissions

closed (26 March 2023)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/81022

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

mdpi.com/journal/ sustainability





Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



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. *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.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G OC5, Canada

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)

