Special Issue

Novel and Advanced Wastewater Treatment Technologies

Message from the Guest Editors

Novel and advanced wastewater treatment technologies are revolutionizing the way we manage wastewater. These innovations use cutting-edge science and engineering to remove pollutants more effectively and efficiently while also recovering water, an invaluable resource. Some of the most promising technologies include: Membrane bioreactors (MBRs), which use membranes to filter out pollutants, resulting in cleaner effluent;

- Advanced oxidation processes (AOPs), which use strong oxidizing agents to break down recalcitrant and forever chemicals into harmless molecules;
- Electrochemical treatment, which uses electricity to remove pollutants;
- Emerging chemical treatment, which is are needed to treat recalcitrant and forever chemicals economically and efficiently;
- Resource recovery, which involves extracting valuable nutrients and energy from wastewater, reducing the need for fresh water and energy;
- Decentralized treatment systems, which can be used in remote areas or in small communities;
- Real-time monitoring and AI, which can be used to optimize wastewater treatment systems and reduce operational costs.

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Jae Kwang (Jim) Park

Department of Civil & Environmental Engineering, University of Wisconsin-Madison, Madison, WI 53706, USA

Dr. Vassilis J. Inglezakis

Department of Chemical and Process Engineering, University of Strathclyde, Glasgow G1 1XQ, UK

Deadline for manuscript submissions

closed (8 July 2024)

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/184658

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

mdpi.com/journal/sustainability

MDPI

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 0C5, 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)