



Novel and Advanced Wastewater Treatment Technologies

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

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Message from the Guest Editors

Dear Colleagues,

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.





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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Sustainability Editorial Office
MDPI, Grosspeteranlage 5
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