



## 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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