

## Special Issue

# Sustainable Management of Wastewater and Sludge

### Message from the Guest Editors

The activated sludge system, a stable biotechnology that has been utilized in wastewater treatment plants (WWTPs) for decades, effectively removes nutrients such as organics, nitrogen, and phosphorus from wastewater. However, the current wastewater treatment processes require a significant energy input, and existing sludge treatment methods produce low-quality sludge while exhibiting relatively low efficiency. In the era of the circular economy, the wastewater industry necessitates technologies with high efficiency and low energy consumption. Therefore, our Special Issue titled “Sustainable Management of Wastewater and Sludge” focuses on the development of novel biotechnologies in the wastewater and sludge industry to promote the circular economy. This Special Issue includes, but is not limited to, the following topics:

- Nitrogen removal biotechnology
- Phosphorus removal biotechnology
- Resource recovery biotechnology
- Low greenhouse gas emission biotechnology
- Integrated wastewater and sludge management
- Innovative uses of digestate (both liquid and solid)

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### Guest Editors

Dr. Zhetai Hu  
Dr. Zhiqiang Zuo  
Dr. Bo Wang

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### Deadline for manuscript submissions

closed (20 March 2026)



## Processes

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