

## Wastewater Treatment and Resource Recycling and Recovery: Agricultural, Industrial, and Small-Scale Systems Effluents and Runoff

Guest Editor:

**Dr. Aleksandra Drizo**

Sustainability Science and  
Engineering, Tunghai University  
International College, Taichung  
City, Taiwan

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### Message from the Guest Editor

Dear Colleagues,

The deterioration of water quality due to pollution caused by humans and their activities has become a universal health, environmental, social, and economic problem. Inadequate or insufficient treatment of wastewater and runoff originating from agriculture activities, industrial production, mining, and untreated discharges from human households has become an increasing threat to water and food security globally. Excess discharges of nutrients resulting in harmful algae blooms (HABs) have been recognized as one of the most prevalent water pollution problems globally. Global climate change will promote cyanobacterial growth and aggravate HABs at much larger scales. It will also continue to diminish global water resources and potable water supplies.

However, pollutant removal is currently required mainly for large industrial and municipal sewage treatment plants. For example, despite the recognition of agriculture as the major contributor [...]

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Water Editorial Office  
MDPI, St. Alban-Anlage 66  
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