

## Special Issue

# Circularity, Sustainability, Resilience, and Analysis in Water, Wastewater, and Sludge Management

### Message from the Guest Editors

This Special Issue explores innovative approaches to water, wastewater, and sludge treatment, as well as resource recovery and ecological protection. Biomass waste from wastewater treatment poses a dual challenge—it is both a pollutant and a potential resource. By adopting the principles of the circular economy, these wastes can be transformed into valuable resources, providing both environmental and economic benefits. Thus, the utilization of biomass waste is of practical importance and is in line with the goals of sustainable wastewater management. In addition, this Special Issue addresses the extremely important issue of emerging pollutants. It discusses the sources of these pollutants and their fate in the environment, as well as the main tools available for their analysis. It also describes the representative environmental panels (air, soil, and water) and the appropriate analytical methods for each panel. In addition, it reviews aspects of toxicology, chemometrics, sample preparation, and green analytical chemistry.

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### Guest Editors

Dr. Athanasia K. Tolkou  
Prof. Dr. Victoria Samanidou  
Dr. Elena Cristina Rada

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### Deadline for manuscript submissions

31 October 2026



## Sustainable Chemistry

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Impact Factor 4.2  
CiteScore 7.8



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## About the Journal

### Message from the Editor-in-Chief

There are many issues facing society, such as energy/food/water security, plastic pollution, antibiotic resistance, global warming. To solve these (and other issues), scientists and engineers need to work together to tackle these imminent dangers. The field of Green (or Sustainable) Chemistry has been transformed in the last 30 years since Paul T. Anastas and John C. Warner pioneered the now famous “12 Principles of Green Chemistry”. The journal, Sustainable Chemistry (published by MDPI), aims to be one of the go-to journals in the area, publishing cutting-edge research in the area more broadly. The open access model allows our work to reach a broad base of readers from all corners of the world.

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### Editor-in-Chief

Prof. Dr. Matthew Jones

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