

Special Issue

Contaminants in Water Systems: Intelligent Recognition, Detection and Analytical Methods

Message from the Guest Editors

Water systems worldwide are increasingly becoming contaminated by various pollutants, posing significant risks to public health and the environment. To address these challenges, intelligent recognition, detection and analytical methods are being developed and deployed to monitor and manage water systems effectively.

This Special Issue seeks high-quality works on topics including, but not limited to:

1. Development and application of sensors for contaminant detection in water systems;
2. Intelligent algorithms and machine learning models for the real-time monitoring and prediction of water quality;
3. Analytical methods for the identification/quantification of emerging contaminants;
4. Integration of IoT technologies in water quality management;
5. Advances in spectroscopic/chromatographic techniques for water analysis;
6. Case studies on the implementation of intelligent systems in municipal/industrial water treatment;
7. Data-driven approaches for assessing the impact of contaminants on public health and ecosystems;
8. Remote sensing technologies for large-scale water quality monitoring;
9. Innovations in portable and field-deployable detection devices for rapid contaminant assessment.

Guest Editors

Dr. Jie Yu

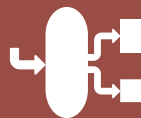
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