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Electrochemical Sensor Applications for Environment Monitoring

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Message from the Guest Editor

Electrochemical sensors have become essential for detecting and analyzing environmental pollutants in real time. They are highly sensitive and selective and provide fast measurements, making them crucial for managing and assessing environmental quality.

This Special Issue welcomes contributions (papers, communications, and reviews) that address the following broad topics (but not limited to):

- Development and optimization of electrochemical sensor platforms for environmental monitoring.
- Design and fabrication of novel sensing materials and electrode architectures.
- Integrating electrochemical sensors with emerging technologies, such as the Internet of Things (IoT), data analytics, and Artificial Intelligence, for intelligent environmental monitoring systems.
- Electrochemical sensors for analyzing and monitoring water quality, including detecting heavy metals, organic contaminants, and nutrients.
- Applications of electrochemical sensors for the real-time monitoring of greenhouse gases
- Electrochemical sensor-based approaches for detecting and quantifying emerging contaminants, such as pharmaceuticals, personal care products, and microplastics.



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Special Issue



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Message from the Editor-in-Chief

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