Special Issue

Electrochemical Sensors for Trace Analysis

Message from the Guest Editors

Electrochemical sensors for trace analysis are analytical devices that use electrochemical techniques to detect and quantify low concentrations of various substances, such as pollutants, biomolecules and metal ions. Electrochemical sensors are by far the most commonly used sensor types due to their advantages such as low detection limits, selectivity, stability and longevity, rapidness and low-cost measuring devices. Recent advances in nanotechnology, materials science and signal processing have led to improved electrochemical sensors with enhanced performance characteristics. Innovations include the use of nanomaterials (such as graphene, carbon nanotubes and metal nanoparticles) to increase electrode surface area, improve electron transfer rates and increase overall sensor sensitivity and selectivity. This Special Issue aims to publish original research and review articles highlighting recent advances and challenges in the development of chemical sensors for trace analysis. We look forward to your submission.

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Deadline for manuscript submissions

5 September 2025

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/si/226447

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