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Electrochemical Detection: Analytical and Biological Challenges

Guest Editor:

Dr. Gabriela Broncová
Department of Analytical Chemistry, University of Chemistry and Technology in Prague (UCT Prague), Technická 5, 166 28 Prague, Czech Republic

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Message from the Guest Editor

This Special Issue is dedicated to analytical and biological challenges from the electrochemical field. The innovations that are observed in the field of electrochemical detection are valuable for food quality monitoring, health diagnostics, environment, chemical process control, and forensic analysis. Despite the fast progress in the field of electrochemical detection, there is a requirement to improve sensitivity, selectivity, and stability of systems working on the electrochemical principles. Challenges in this area can be new sensitive materials, surface treatments, and innovative processes that can lead to improved parameters of existing sensors or new sensor systems.

The Special Issue will cover but not be limited to the following topics:

- Advances in electrochemical detection (potentiometry, amperometry, voltammetry, electrochemical impedance spectroscopy);
- Novel concepts' electrochemical detection;
- Preparation, modification, and characterization electrodes;
- Molecular recognition with electrochemical detection;
- Trends in analytical electrochemistry;
- Electrochemical sensors and sensor-array chemometrics;
- Applied analytical electrochemistry.

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Editor-in-Chief

Prof. Dr. Nicole Jaffrezic-Renault

Institute of Analytical Sciences, UMR CNRS 5280, Department LSA, 5 Rue de La Doua, 69100 Villeurbanne, France

Message from the Editor-in-Chief

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Analytical methods

Environmental monitoring

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Chemosensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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