

Special Issue

Modern Directions in Ion Electroanalysis for Real World Applications

Message from the Guest Editor

Ion sensing with electrochemical techniques is undoubtedly among the pillars of the digitalization era. From wearable sensors to submersible probes, ion electroanalysis has demonstrated tremendous potential in miniaturized gadgets able to monitor the fluctuation of ion concentrations. Furthermore, the appropriate interpretation of these outcomes in certain time, space, or inter-subject domains provides unprecedented information related to important socioeconomic aspects, such as clinical diagnosis, disease monitoring, water quality control, and cell-scale processes. Any real world application is attainable owing to a deep understanding of the fundamentals embracing the sensing core of the ion detection principle. Thus, the integration of basis science and analytical applications has advanced towards a true decentralization process of accurate ion measurement. The aim of this Special Issue is to collect current fundamental directions in ion electroanalysis in view of further analytical applications, but also demonstrations at the lab scale and through the on site assessment of real world uses.

Guest Editor

Prof. Dr. Maria Cuartero

Applied Physical Chemistry, KTH Royal Institute of Technology, SE 100 44 Stockholm, Sweden

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Chemosensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
chemosensors@mdpi.com

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Editors-in-Chief

Prof. Dr. Jin-Ming Lin

Beijing Key Laboratory of Microanalytical Methods and Instrumentation,
Department of Chemistry, Tsinghua University, Beijing 100084, China

Prof. Dr. Nicole Jaffrezic-Renault

Institute of UTINAM, University of Franche-Comté, UMR-CNRS 6213, 16
Gray Road, 25030 Besançon, France

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