



Analytical (Chem and Bio)sensors Based on EIS Measurements

Guest Editor:

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Message from the Guest Editor

Electrochemical impedance spectroscopy (EIS) has been recognized as a method of overall characterization of electrode processes, faradaic and non-faradaic, providing broad time scale measurement. Research and development in analytical sensors area, focused on electrode materials, solvents and samples, usually take the advantage in the EIS examination. However, EIS with numerous data processing possibilities and/or data formats often can deliver superior observables for analytical purposes over dc currents recorded in amperometry/voltammetry, including square wave voltammetry and pulse voltammetry. This planned Special Issue of *Chemosensors* is intended to cover both aspects of EIS applications in analytical (chem and bio) sensors studies as a characterization tool and a method of analysis.

- models of electrochemical ac impedance
- EIS data formats
- faradaic and non-faradaic ac impedance measurements
- impedance, admittance, capacitance, modulus, electric permittivity
- EIS observables of analytical importance
- EIS applications for characterization of analytical sensors
- EIS applications providing new observables for analytical sensors
- chemical sensors
- biosensors





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Message from the Editor-in-Chief

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New chemical sensors design

Electrochemical devices, potentiometric sensor, redox electrode

Optical chemical sensors

Analytical methods

Environmental monitoring

Gas detectors

electronic nose, etc.

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