

Special Issue

Electrochemical Impedance Spectroscopy for Sensor Applications

Message from the Guest Editor

In recent decades, we have seen a growing interest in enhancing electrochemical impedance spectroscopy (EIS) for use in sensor technologies, with innovative work underway in areas from EIS-based sensor designs and signal processing methods, data modeling, and material optimization to practical applications in medicine, industry, and biology. Our main aim in launching this Special Issue is to share recent advances, solutions, applications, and new challenges in EIS-based sensor applications through original research and review articles. Potential topics include, but are not limited to, the following:

- EIS-based sensor design and fabrication;
- EIS-based sensors for environmental monitoring;
- EIS-based sensors for medical applications;
- EIS-based sensors for food safety and agricultural monitoring;
- EIS-based sensors for energy storage devices;
- Wearable and portable EIS sensor systems;
- EIS integration into microfluidic platforms;
- Label-free EIS-based biosensors;
- Material development for EIS-based sensors;
- Advanced data analysis and modeling in EIS;
- Noise reduction and signal processing techniques for EIS-based sensors;

Machine learning and artificial intelligence applications in EIS-based sensing.

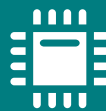
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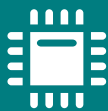


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About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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