Special Issue

Applications of Electrical Impedance Spectroscopy(EIS) in the Development of Sensors and Sensing Systems

Message from the Guest Editors

Electrical Impedance Spectroscopy (EIS) is a powerful technique that can be used in a broad range of applications, from biological analysis to food quality assessment, from measurements of battery state of charge to corrosion analysis. The working principle of EIS is based on the measurement of the impedance of the investigated sample in a wide range of frequencies in order to estimate the parameters of interest from the measured impedance spectrum. The first application of EIS dates to 1894, but it was only in the late 1970s that, thanks to the introduction of affordable computer-controlled impedance meters, interest in the technique increased. Since then, the number of scientific papers on EIS applications has grown constantly and doubled every 4 or 5 years. The goal of this special issue is the publication of high quality papers discussing recent advancements in the development of EIS based applications. The editors welcome original research articles that has not been submitted or published on other journals, as well as review articles discussing the state-of-the-art of EIS applications.

Guest Editors

Dr. Martin Eugenio Omana

Dipartimento di Ingegneria dell'Energia Elettrica e dell'Informazione "Guglielmo Marconi" Viale del Risorgimento 2, Bologna, Italy

Dr. Marco Grossi

Dipartimento di Ingegneria dell'Energia Elettrica e dell'Informazione "Guglielmo Marconi" Viale del Risorgimento 2, Bologna, Italy

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

mdpi.com/journal/sensors

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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