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Recent Advances in Chemical and Biological Sensors and Sensor Systems

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Deadline for manuscript submissions:
closed (31 January 2021)

Message from the Guest Editors

This Special Issue of *Sensors* invites researchers in engineering, chemistry, biology, and related fields to submit work at all levels of chemical and biological sensor development, from sensor materials to sensor systems and networks. Efforts that overcome existing and lasting barriers to the meaningful implementation of chemical and biological sensors in applications with critical relevance to the health and well-being of modern society are particularly welcome. Sensor technologies of interest include but are not limited to:

- Electrochemical sensors;
- Chemiresistors;
- Surface plasmon resonance;
- Piezoelectric;
- Surface acoustic wave;
- Thermometric;
- Resonant and other microelectromechanical transduction mechanisms;
- Optical sensors.

Examples of critical applications to which these sensor technologies can be applied include food safety, preventative and diagnostic healthcare, natural disaster response, air and water quality monitoring, precision agriculture, chemical and biological defense, and process control.

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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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