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Sensor Systems for the Chemical and Biochemical Safety of Working Places

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Deadline for manuscript submissions:

20 November 2024

Message from the Guest Editors

Industrial processes involve the use and/or the production of harmful compounds that can contaminate the workplace air. Common protection systems avoid the acute exposure of operators, however for most of these compounds the continuous exposure at sub-acute concentrations could result in severe long-term health consequences. Thus, a continuous monitoring and mapping of personal exposure is a basic tool to improve the quality of life and protect health in working places. For the scope it is mandatory the development of chemical sensors and biosensors aimed to identify potential harmful situations, and also able to qualify and quantitate the possible dangerous substances even at very low airborne concentrations. The implementation of wearable technologies and sensor networks is also considered fundamental to monitor continuously the chemical surround of individuals and to map the distribution of chemicals in extended working places.

The special issue is addressed to chemical and biochemical sensors specifically designed for selected working places and to those technologies (electronics, communication, data analysis,...) necessary for effective sensors deployment.



mdpi.com/si/110864

Special Issue



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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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Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

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