sensors

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Nanomaterials for Chemical Sensors

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2021)

Message from the Guest Editor

Dear Colleagues,

The needle eye in developing sensors is the design of innovative materials. Thus, this Special Issue is focused on the detection process by coatings. The most innovative trends in this field were initiated by nanotechnology in the last few decades. This strategy meets the challenges of modern chemical sensors: miniaturization, fast responses, reversibility, low energy consumption, and low cost. All these sensor materials have to be combined with suitable transducers such as mass sensitive devices, resistive, capacitive, electrochemical, and optical detection methods. Measurements are possible both in the gaseous and liquid phase.

- Chemical sensors
- Coatings
- Nano particles
- Chemical and biochemical recognition
- Supramolecular chemistry
- Polymers
- Molecular imprinting
- Transducers
- Electrochemical detection
- Mass sensitive devices
- Optical procedures
- Gases, VOCs
- Lean molecules
- PAHs and PCBs
- Pesticides
- Viruses
- Cells

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Special Issue

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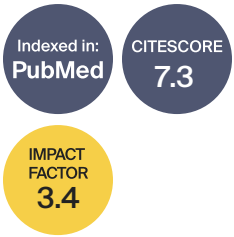

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Message from the Editor-in-Chief

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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