



Optical Chemical Sensors: Design and Applications

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Message from the Collection Editor

Dear Colleagues,

The design of optical chemical sensors (OCSs) has rapidly become a vast, fascinating, and multifaceted field due to the great variety of operating principles, the virtually infinite number of sensing materials and measurands, and the increasingly wider range of present and potential applications.

While existing technologies have matured to a commercial level, novel concepts and strategies are coming to light, prompted by a growing concern about old and new chemical pollution, the quest for imaging-based sensing and diagnostics, and the need for portable low-cost sensors. Moreover, OCSs can be easily integrated with photonics, microfluidics, and array-based detection for implementation in wireless, wearable, point-of care, and even smartphone-based systems. As a result, applications encompass almost all aspects of our life, ranging from environmental monitoring to process control, including food analysis, medicine, biotechnology, and security.

We invite investigators to submit high-quality papers that deal with all aspects of this exciting field.

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Prof. Dr. Roberto Pizzoferrato
Guest Editor



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sensors



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