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Optical Chemosensors and Biosensors

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Message from the Collection Editor

The field of chemo- and bio-sensors, ranging from biomedical/clinical applications to environmental applications and food analyses, has been growing as of two decades. In fact, in all of these fields, there is a growing demand for rapid responses, quality control, usable devices, low-cost analyses, etc. All these features could lead to an improved healthy life, ranging from a more reliable and controlled quality of food and environment to a faster and more specific diagnosis.

The optical detection methods used in chemo- and bio-sensors are based both on label-based or label-free techniques. The former ones make use, for example, of fluorescent or chemiluminescent-based detection systems, while the latter are based on direct optical detection of physical measurands, which are modified by chemical/biochemical reactions, such as the refractive index or the thickness or the density of the sensing layer at the surface where the interaction occurs.

The aim of the Topical Collection is to collect new optical (label-free and label-based) chemo- and bio-sensors studies for biomedical/clinical, environmental applications and food analysis.

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Message from the Editor-in-Chief

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New chemical sensors design

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Optical chemical sensors

Analytical methods

Environmental monitoring

Gas detectors

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