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Optical Chemical Sensors and Spectroscopy

Guest Editors:

Dr. Sergey Y. Yurish
International Frequency Sensor Association (IFSA), 08860 Castelldefels, Spain

Prof. Dr. Gou-Jen Wang
Graduate Institute of Biomedical Engineering, National Chung-Hsing University, Taichung 40227, Taiwan

Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editors

The field of optical chemical sensors has been a growing research area over the last decades, finding increasing application in industry, environment, monitoring, medicine, biomedicine, and chemical analysis. The recent developments in this area are driven by such factors as the availability of low-cost, miniature optoelectronic light sources and frequency-output detectors, the need for multianalyte array-based sensors (particularly in the area of biosensing), advances in microfluidics and imaging technology, and the trend toward sensor networks.

Topics of interest for submission include, but are not limited to, the following:

- Optical chemical sensors;
- Optical transduction;
- Spectroscopic sensing;
- Imaging;
- Optical absorption;
- Luminescence-based sensors;
- Fluorescence-based sensors;
- Interferometric sensors;
- Fiber-optic sensor platforms;
- Diode laser sensing systems;
- Sol–gel-materials-based sensors.

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Editor-in-Chief

Prof. Dr. Nicole Jaffrezic-Renault

Institute of Analytical Sciences, UMR CNRS 5280, Department LSA, 5 Rue de La Doua, 69100 Villeurbanne, France

Message from the Editor-in-Chief

Chemosensors is an international, scientific, open access journal on the science and technology of chemical sensors published by MDPI. All articles are released on the internet immediately following acceptance. The journal publishes reviews, regular research papers, and communications. The scope of Chemosensors includes:

New chemical sensors design

Electrochemical devices, potentiometric sensor, redox electrode

Optical chemical sensors

Analytical methods

Environmental monitoring

Gas detectors

electronic nose, etc.

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Chemosensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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chemosensors@mdpi.com
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