



sensors



an Open Access Journal by MDPI

Optical Sensing for Chemical Application

Guest Editors:

Prof. Dr. Barry K. Lavine

Department of Chemistry,
College of Arts and Sciences,
Oklahoma State University,
Stillwater, OK 74078, USA

Prof. Dr. Karl Booksh

Department of Chemistry,
University of Delaware, Newark,
DE 19716, USA

Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editors

This Special Issue will cover the application of chemical sensors based on optical methods for the detection and identification of historical, transient, or emerging events that are industrial, environmental or biological in origin. We are interested in all studies involving chemical sensors that can contribute to advances in a broad range of applications. It is expected that a wide range of sensing technologies will be covered by this Special Issue, including novel analytical methodologies, unique platforms, or improvements to existing methods. For this Special Issue, we are soliciting both original research papers and review articles devoted to instrumentation, methodology, data analysis, or some combination of these which can impact the development of better chemical sensors.

Keywords:

- optical sensing
- Raman
- optical surface plasmon resonance
- chemometrics
- fiber optic sensing
- event detection
- classification
- calibration
- high throughput screening



mdpi.com/si/81298

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

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.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)