



*sensors*



an Open Access Journal by MDPI

## Spectroscopy Gas Sensing and Applications

Guest Editors:

**Prof. Dr. Liqun Sun**

State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instruments, Tsinghua University, Beijing 100084, China

**Dr. Haoyun Wei**

Department of precision instrument, Tsinghua University, Beijing 100084, China

Deadline for manuscript submissions:

**31 May 2024**

### Message from the Guest Editors

Dear Colleagues,

The use of the optical absorption of gas to detect gas concentrations has been used in a wide range of applications, including environmental and industrial monitoring. Optical gas sensing techniques include nondispersive infrared gas sensors, spectrophotometry, tunable diode laser spectroscopy and photoacoustic spectroscopy.

Gas sensing based on optical technology is an ideal choice for various applications, as it has a high selectivity and high sensitivity. Spectroscopy gas sensing has always been a hot topic, With topics including infrared absorption, Raman spectroscopy, photoacoustic spectroscopy, etc. How to improve the sensitivity and applicability of spectroscopy gas sensing is still a problem worthy of research.

This Special Issue, entitled “Spectroscopy Gas Sensing and Applications”, will focus on original papers reporting recent developments in these techniques and new insights in gas sensing methods, as well as those reporting on the important key sensing components and field-testing applications.



[mdpi.com/si/159041](https://mdpi.com/si/159041)

# 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](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)