

## Special Issue

# Advanced Sensors for Gas Monitoring: 2nd Edition

### Message from the Guest Editors

This Special Issue will focus on the sensing elements of instruments used for measuring the flow rate and/or the composition of flowing gases. Additionally, developments in artificial intelligence are maturing, with important implications on the digital treatment of raw sensor output. The topics of the Special Issue will include the following:

- Developments and innovative applications of existing sensors;
- New/improved mechanical flow rate sensors;
- Developments in thermal sensors;
- Developments in ultrasonic sensors;
- Gas composition sensing elements;
- Micro- and nano-sensors for flow rate and composition;
- Integrated sensors;
- “Lab-on-a-chip” applications;
- Monitoring of gas energy content;
- Algorithms for the elaboration of sensor outputs;
- Sensors for atmospheric monitoring.

Papers concerning related topics can be included if deemed to be consistent with the general topic of the Special Issue. This Special Issue is devoted to developments in sensors for measuring gas flow rate and composition.

### Guest Editors

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Dr. Aline Piccato

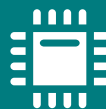
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### Deadline for manuscript submissions

10 June 2026



## Sensors

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## About the Journal

### 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.

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### Editor-in-Chief

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