

## Special Issue

# Air Quality Monitoring Sensors Network

### Message from the Guest Editors

Alongside the advancements in sensor technologies, air quality monitoring has entered a new era featuring the dense deployment of air quality sensors. Low-cost gas and particulate matter (PM) sensors are being connected via wired or wireless communication protocols (e.g., WIFI and LoRaWAN) to create distributed or community air monitoring networks, providing an unprecedented capacity and opportunity to reveal the temporal-spatial distribution of air pollutants in indoor and outdoor environments. This Special Issue aims to offer a platform for researchers to present recent advancements in air quality monitoring sensor networks. It welcomes the following topics:

- The design, fabrication, calibration, and assessment of air quality sensors for establishing monitoring networks;
- Internet-of-Things (IoT) technologies for integrating air quality sensors into a usable monitoring network;
- Case studies of air quality monitoring sensor networks, focusing on sensor selection, network architecture, or system integration;
- Novel technologies or case studies regarding the management (e.g., calibration) of a large-scale or dense sensor network.

---

### Guest Editors

Dr. Xufei Yang

Department of Agricultural and Biosystems Engineering, South Dakota State University, Brookings, SD 57007, USA

Dr. Jiayu Li

Department of Mechanical and Aerospace Engineering, University of Miami, Coral Gables, FL 33146, USA

---

### Deadline for manuscript submissions

closed (1 May 2023)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/134677](https://mdpi.com/si/134677)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)



## 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.

---

### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

---

### 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 and Instrumentation) / CiteScore - Q1 (Instrumentation)