

Special Issue

Novel Sensor Technologies for Civil Infrastructure Monitoring

Message from the Guest Editor

The increasing frequency of harsh environmental and climatic conditions and long design reference periods have had an adverse impact on civil infrastructures. Accordingly, it is critical to accurately and precisely monitor the mechanical behavior of civil infrastructures. Civil infrastructure monitoring with the aim of early damage detection and acquiring the data required for engineering construction not only prevents sudden infrastructure collapse but also increases service life and sustainability. Various types of novel sensors with new principles, new materials or new technologies, including the following, would provide new ways to assist in the green and high-quality development of civil engineering infrastructures:

- Graphene-based sensors;
- Piezoceramic sensors;
- Semi-distributed/distributed optical fiber sensors;
- FBG-based 3D-printed/FBG sensors;
- Image-/video-/laser-based sensors;
- Smart/intelligent sensing methods;
- Multi-sensor fusion methods;
- IoT-based monitoring technology.

Guest Editor

Dr. Chengyu Hong

College of Civil and Transportation Engineering, Shenzhen University,
Shenzhen 518060, China

Deadline for manuscript submissions

closed (31 March 2026)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/209564

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)