

Special Issue

Colorimetric Sensing Technologies for Food Safety and Environment Monitoring

Message from the Guest Editors

The development of chemosensors and nanosensors for food safety and environmental monitoring has seen significant progress, with colorimetric detection standing out due to its simplicity, cost-effectiveness, and portability. The integration of miniaturized detectors and everyday devices like smartphones has further propelled this field, enabling non-conventional optical sensing.

This Special Issue focuses on innovations in colorimetric sensing, including the synthesis and application of molecular chromogens and plasmonic nanoparticles for food/environmental analysis. Key areas include multiplexed sensors, colorimetric arrays, and smart packaging films. Contributions leveraging smartphone-based detection with paper-based devices or lab-on-a-chip systems are encouraged. Original research and reviews advancing the field are welcome.

Guest Editors

Prof. Dr. Francisco Javier Pena-Pereira

Centro de Investigación Mariña, Departamento de Química Analítica e Alimentaria, Grupo QA2, Edificio CC Experimentais, Universidade de Vigo, Campus de Vigo, As Lagoas, Marcosende, 36310 Vigo, Spain

Prof. Dr. José Carlos Bendicho Hernández

Centro de Investigación Mariña, Departamento de Química Analítica e Alimentaria, Grupo QA2, Edificio CC Experimentais, Universidade de Vigo, Campus de Vigo, As Lagoas, Marcosende, 36310 Vigo, Spain

Deadline for manuscript submissions

20 December 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/240577

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 9.4
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)