



*sensors*



an Open Access Journal by MDPI

## CdZnTe Radiation Detectors and Applications

Guest Editor:

**Dr. Fabio Principato**

Dipartimento di Fisica e Chimica -  
Emilio Segrè, University of  
Palermo, Viale delle Scienze,  
Edificio 18, 90128 Palermo, Italy

Deadline for manuscript  
submissions:

**closed (31 December 2022)**

### Message from the Guest Editor

Dear Colleagues,

Over the last few decades, CdZnTe (CZT) semiconductors have emerged as the material of choice for room-temperature hard X-ray and soft  $\gamma$ -ray detectors.

Significant progress has been made in crystal growth, which now allows the production of high-quality, large-volume CZT detectors with different geometries such as planar, pixilated, and co-planar grid able to perform high-resolution room temperature spectroscopy. Today, the high performances of both front-end and readout electronics lead to the development of sensing modules with CZT detectors for medical imaging, security screening, and non-destructive testing applications.

In this framework, it is my pleasure to edit this Special Issue on “CdZnTe Radiation Detectors and Applications”.

This Special Issue invites submissions of both review and original research articles related to the state of the art in CZT sensors, as well as prospects for future developments and applications.

Dr. Fabio Principato  
*Guest Editor*



[mdpi.com/si/87837](https://mdpi.com/si/87837)

# 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](#)