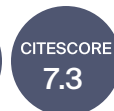




*sensors*



an Open Access Journal by MDPI

## Recent Advances in CMOS Image Sensor

Guest Editor:

**Dr. De Xing Lioe**

Research Institute of Electronics,  
Shizuoka University, 3-5-1  
Johoku, Nakaku, Hamamatsu,  
Shizuoka 432-8011, Japan

Deadline for manuscript  
submissions:

**15 December 2025**

### Message from the Guest Editor

Dear Colleagues,

The CMOS image sensor has evolved from an image acquisition device to having sensing capabilities. Continuous innovations have seen advancements and improvements in areas including pixel size, read noise, readout speed, efficiency, time resolution, power consumption, and stacking structure. These enable various kinds of applications, such as high-dynamic-range, time-of-flight, single-photon counting, augmented reality/virtual reality, biomedical imaging, and many others. CMOS image sensors exist in a diverse variety of products in our everyday life, from consumer electronics such as mobile phones and digital cameras to automotive, security, medical, and others. These are expected to continuously grow with advanced performance and new functionalities. This Special Issue aims at highlighting the recent developments in CMOS image sensor technology and applications.

For more information, please see: [mdpi.com/si/102084](https://mdpi.com/si/102084)



[mdpi.com/si/102084](https://mdpi.com/si/102084)

# 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 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

*Sensors* Editorial Office  
MDPI, Grosspeteranlage 5  
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](#)