

## Special Issue

# Magnetic Sensors and Systems for Scientific and Industrial Applications

### Message from the Guest Editor

The global market for magnetic field sensors is expected to grow due to presence of a large automotive industry. Moreover, new development in advanced world-scale scientific experimental equipment require precise magnetic diagnostics in harsh environments. Therefore, the development of new magnetic sensor technologies with increased capabilities and wider ranges of operation is of great importance.

Despite the widespread use of Lorentz force-based magnetic sensors, an increasing interest in magnetic sensors based on so-called magnetoresistive xMR effects suggests a possibility to integrate them with standard microelectronics technologies and to develop sensors systems with higher precision and lower dimensions of single component. Each application has specific requirements for sensor fabrication technology, device specifications, magnetic field and temperature ranges of operation, and sensor accuracy.

Therefore, we invite the international community from academia to present their recent developments. For further information, please visit [mdpi.com/si/44335](https://mdpi.com/si/44335).

---

### Guest Editor

Prof. Dr. Nerija Žurauskienė

Department of Functional Materials and Electronics, Center for Physical Sciences and Technology, Sauletekio Ave. 3, 10257 Vilnius, Lithuania

---

### Deadline for manuscript submissions

closed (10 November 2025)



## Sensors

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.5**  
**CiteScore 8.2**  
**Indexed in PubMed**



[mdpi.com/si/44335](https://mdpi.com/si/44335)

*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

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 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)