



*sensors*



an Open Access Journal by MDPI

## Magnetic Sensors and Systems for Scientific and Industrial Applications

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)**

### Message from the Guest Editor

Dear Colleagues,

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).



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

**Special** Issue



*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Vittorio M. N. Passaro**

Department of Electrical and  
Information Engineering,  
Politecnico di Bari, Via Orabona  
4, 70126 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 and Instrumentation) / 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](#)