

## Special Issue

# Magnetic Sensing/Functionalized Devices and Applications

### Message from the Guest Editor

Magnetic sensing or functionalized devices have been broadly researched in terms of their operation principles and property behavior under versatile applications in the fields of consumer electronics, automotive, automation, nondestructive testing, robotics, biochemistry, biomedicine, environmental monitoring, etc. This Special Issue will address all aspects of research on magnetic sensing or functionalized devices and their applications. Original research and review articles are encouraged. Topics include but are not limited to:

- Induction sensors;
- Fluxgate sensors;
- Hall-effect magnetic sensors;
- Magneto-optical sensors;
- Resonance magnetodevices;
- Giant magnetoresistance;
- Superconductivity quantum interference devices (SQUID);
- Micromachined/MEMS-based devices;
- Sensor with functionalized magnetic particles;
- Magnetic functionalized transducers/flexible electronics;
- Functionalized materials for magnetic sensing;
- Novel applications of magnetic devices.

---

### Guest Editor

Prof. Dr. Guo-Hua Feng  
Department of Power Mechanical Engineering, National Tsing Hua University, Hsinchu 300, Taiwan

---

### Deadline for manuscript submissions

closed (31 December 2020)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/42253](https://mdpi.com/si/42253)

*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  
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)