

## Special Issue

# Emerging MRI Techniques for Enhanced Disease Diagnosis and Monitoring

### Message from the Guest Editor

Magnetic Resonance Imaging (MRI) continues to evolve as one of the most powerful and versatile diagnostic tools in modern medicine. This Special Issue will focus on recent advances in MRI hardware and acquisition techniques that are transforming disease diagnosis and monitoring. Topics of interest include novel RF coil designs, advanced gradient systems, ultra-high-field and ultra-low-field MRI technologies, and material-based innovations that enhance imaging performance. We also welcome contributions on new pulse sequences, reconstruction algorithms, and multi-parametric imaging methods that improve sensitivity, specificity, and quantification across a range of clinical applications. By bringing together innovations in engineering, physics, and computational imaging, this issue aims to highlight interdisciplinary efforts that push the boundaries of MRI and open new pathways for early detection, longitudinal monitoring, and precision diagnosis of disease. Submissions are encouraged from both academic and industry researchers working at the intersection of sensor development, imaging hardware, sequence design, and clinical translation.

---

### Guest Editor

Dr. Akbar Alipour

Department of Diagnostic, Molecular And Interventional Radiology, BioMedical Engineering and Imaging Institute (BMEII), Icahn School of Medicine at Mount Sinai, New York, NY 10029, USA

---

### Deadline for manuscript submissions

30 December 2026



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/250945](https://mdpi.com/si/250945)

*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)