

Special Issue

Towards a New Era of MEG Imaging: New Technologies and Clinical Applications

Message from the Guest Editor

Magnetoencephalography (MEG) is a functional neuroimaging technique for mapping brain activity by recording the tiny magnetic fields produced by electrical currents occurring naturally in the brain. MEG requires ultrasensitive sensors. This Special Issue aims at covering the latest developments in new sensor technologies applied to biomagnetic recordings, but also the developments in new magnetic shielding approaches, passive as well as active, and current studies aiming at evaluating, in clinical conditions or by using data simulation, MEG based on these new sensors. Both review articles and original research papers are solicited.

- optically pumped magnetometers (OPM)
- high temperature SQUID (HTc SQUID)
- giant magneto resistive (GMR) sensors
- magnetoencephalography
- magnetic shielding
- biomagnetism

Guest Editor

Prof. Dr. Etienne Labyt
CEA LETI, MINATEC Campus, University Grenoble Alpes, F-38000
Grenoble, France

Deadline for manuscript submissions

closed (30 April 2023)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/79346

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)