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

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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

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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.

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