



Terahertz Sensors for Biomedical Application

Guest Editor:

Dr. Patrick Mounaix

IMS UMR CNRS 5218, Department
of Science and Technology,
Université Bordeaux, 33400
Talence, France

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Message from the Guest Editor

Dear Colleagues,

Terahertz instrumentation has improved significantly in recent years such that THz spectrometers, components and imaging systems have become more efficient and simpler to use for non-experts. Due to the non-ionizing nature of THz light and its high sensitivity to soft tissues, there is a growing interest in biomedical applications including both in vivo and ex vivo studies. Furthermore, research continues into understanding the origin of contrast and how to interpret terahertz biomedical images. For this Special Issue, we aim to present a series of research studies related to THz spectroscopy, terahertz imaging, and new data processing for biomedical applications. They may include experimental investigations, theoretical models and methods of data analysis for signal extraction as well as new sources of THz radiation and detection apparatus including methods of imaging and new sensors.

Keywords:

- THz laser
- THz radiation
- far-infrared spectroscopy
- THz time-domain spectroscopy
- THz imaging
- terahertz sensors
- data and image processing
- imaging in biomedicine





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Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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