Special Issue

Terahertz Sensors for Biomedical Application

Message from the Guest Editor

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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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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