



Measurements Techniques of Biological Tissues Dielectric Properties, Updated Data and Current Applications

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Message from the Guest Editors

In recent years, there has been a re-emerging interest in the dielectric properties of biological tissues, aimed at the development of advanced applications related both to the medical utilization of electromagnetic fields, such as in hyperthermic treatment modalities and medical imaging, and to on-body and implant-based communications. Designing and developing electromagnetic energy-based medical devices and communication technologies require novel systematic approaches to the investigation of the wideband frequency behavior of tissues' dielectric properties as well as of their dependence on temperature and dehydration. Accordingly, research has been focused on improving the techniques for measuring tissues dielectric properties to discriminate against possible measurement confounders and develop measurements best practices.

The special issue will include, but not limited to, the following topics:

- dielectric measurements
- electromagnetic sensors
- measurement techniques
- biological tissues
- modelling
- medical devices and sensors
- meta-data recording





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Message from the Editor-in-Chief

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