Special Issue

Advanced Detection Techniques for Photoacoustic Bioimaging

Message from the Guest Editors

A variety of imaging techniques have been investigated for biomedical applications. Among them, photoacoustic imaging has shown great promise by providing structural and functional information of biological tissues. Over the past decades, extensive research has been conducted to broaden its biomedical applications, including drug delivery monitoring, the biodistribution of nanomaterials, and treatment assessment. More recently, clinical trials have been conducted to translate photoacoustic imaging into clinical settings by integrating it with conventional ultrasound systems. The objective of this Special Issue is to highlight the latest advances in detection strategies, transducer design, and signal analysis for photoacoustic imaging. For this Special Issue, the topics of interest include, but are not limited to, the following:

- Advanced ultrasound transducer for photoacoustic/ultrasound imaging;
- Flexible and wearable transducer;
- Transparent transducer;
- High-frequency transducer;
- Non-contact acoustic wave detection;
- Array transducer design;
- Clinical photoacoustic and ultrasound imaging.

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Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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