Special Issue

Biomedical Photoacoustic Imaging and Sensing Using Affordable Resources

Message from the Guest Editors

Photoacoustic (PA) or optoacoustic imaging is a hybrid imaging technique with tremendous potential in multi-scale preclinical and clinical biomedical applications. PA imaging is one of the fastest-growing biomedical imaging modalities of the decade, offering scalable imaging depth and resolution, and optical spectroscopic contrast, making it a promising solution for real-time functional, molecular, and structural imaging of tissue. Biomedical PA imaging is now at an exciting stage of clinical translation and it is of paramount importance for academia and industry to come up with portable and affordable light delivery/detection solutions to accelerate the smooth transition to clinic. This Special Issue encompasses a broad range of PA imaging techniques, mainly focused on recent advances in light sources and delivery methods, and new detection strategies towards affordable point-of-care PA imaging.

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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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