

Special Issue

Theory and Applications of Photoacoustic Imaging and Sensing

Message from the Guest Editors

By taking the advantages of optical contrast and ultrasonic penetration depth, photoacoustic imaging and sensing (PAIS) has been successfully applied in biomedical research and preclinical practice, which provides non-invasive, label-free and multiscale inspection alternatives to fill the gaps left by other imaging and sensing modalities. Recently, many efforts have been made to overcome some long-existing challenges and limitations in PAIS and thus expanded the relative applications, including but not limited to, high-speed imaging/sensing strategies, high-quality reconstruction algorithms, high-sensitivity detection sensors, low-cost imaging/sensing devices, high-efficiency photoacoustic probes, etc. The Special Issue is focused on highlighting the recent advances in PAIS technologies and applications.

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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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