

Special Issue

Advanced Optical Sensing Techniques for Applications in Biomedicine

Message from the Guest Editor

Due to technological advances and a continuously increasing demand in biomedicine, the optical techniques for medical imaging and diagnostics have been rapidly developed and optimized in the last decade. This has led to better sensitivity and resolution, faster and reliable detection, sensor miniaturization, new biomarkers, and multimodal sensing techniques for a wider range of applications. This Special Issue invites original contributions on the development of advanced optical techniques and their implementation for biomedical applications. Contributions on topics, including, but not limited to, multimodal imaging and spectroscopy, super resolution, optical manipulation, lab-on-chip miniaturized solutions, cost-effective optical sensors, optical nanomaterials, optical manipulation, and optical fibre sensing, are highly expected. New applications of recognized optical methods and experimental results of novel optical techniques in the field of biomedicine are also very welcome.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)



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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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