Special Issue

Optical Imaging and Biophotonic Sensors (OIBS)

Message from the Guest Editor

The Optical Imaging and Biophotonic Sensors (OIBS) research field is experiencing significant development, primarily in bioimaging, optical spectroscopy imaging, biosensors, nanosensors, integrated photonics and optical lab-on-a-chip sensing systems, relying on the state-of-the-art optical and photonic technology, including instrumentation and measurement biophotonics methods and devices as research tools to understand the cellular origin of diseases. These advanced imaging and photonic-based sensor systems offer major multi-functionalities that deliver greatly increased penetration, resolution, simultaneous sensitivity and selectivity and depth of focus operating in remote environments. The aim of this Special Issue is to explore the advanced progress in research findings and photonics-based engineering technologies related to OIBS for far-reaching applications in imaging, biosensing, environmental, pharmaceutical, medical (using optical imaging spectroscopy), chemical and nano-optic sensors consisting of biologically or biophysically-derived sensing elements.

Guest Editor

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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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