Special Issue

Optical Spectroscopy Technology for Medical Applications

Message from the Guest Editor

Optical spectroscopic techniques provide a host of information about the properties of materials, ranging from their chemical composition to mechanical and dynamic characteristics. The application of optical spectroscopic techniques in medicine facilitates the development of methods to detect and interpret signals associated with health and disease, offering non-invasive and highly specific methods to probe biological systems. With a wide range of contrast mechanisms, these techniques enable detailed investigations across a range of micro- and macroscopic processes, advancing both our fundamental understanding of biology and the capabilities of diagnostic and screening technologies. This Special Issue aims to provide a comprehensive overview of the diverse optical spectroscopic methods used in medical applications, emphasizing recent advancements and novel applications that highlight their potential to enhance diagnostic accuracy and improve therapeutic outcomes.

Guest Editor

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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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