

Special Issue

Luminescent Complexes in Bioimaging, Biosensing and Biomedicine Applications

Message from the Guest Editor

In the past decade, phosphorescent metal complexes have attracted growing attention as a highly promising class of emitters for bioimaging, biosensing, medical diagnostics and therapy, or in combination as theranostics. Compared to traditional fluorescent organic chromophores, these compounds display a large Stokes shift and long excited state lifetimes that enable cutting off the autofluorescence of endogenous fluorophores, obtaining high spatio-temporal resolution in microscopic imaging, and substantially increasing sensors' sensitivity to external stimuli. Simultaneously, the development of time-resolved techniques such as phosphorescence lifetime imaging (PLIM) substantially improves detection sensitivity and accuracy, thus making biomedical experiments more convenient and providing valuable information on the physiological status of the objects under study. This Special Issue will cover recent advances in the design, preparation, and application of luminescent metal complexes in biology and experimental medicine. Manuscripts related to the development of advanced imaging techniques using metal complexes also fit the topic well.

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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