Special Issue

Surface Plasmon Resonance (SPR)-Based Sensors and Their Biological Applications

Message from the Guest Editors

Surface plasmon resonance (SPR)-based sensors are the subject of a growing scientific and practical interest mainly due to their high sensitivity and versatility, as well as their ability to perform the label-free detection of bio-particles or bio-molecules. These traits make SPR-based sensors ideal platforms for the development of diverse chemical and biological assays. Nowadays, SPR-based sensors are widely used in different research and practical fields, such as pharmacology, biomedical science, environmental monitoring, food science, and others. In future, the integration of SPR-based sensing platforms in small research groups or in point of care clinical units will require the development of miniaturized, user-friendly, and low-cost instruments. Thus, this Special Issue is planned to highlight not only the newest scientific developments in biomedical applications of SPR-based sensors, but also to indicate novel trends in the development and engineering of SPR sensing platforms.

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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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