Special Issue

Surface Plasmon Resonance (SPR)-Based Sensors

Message from the Guest Editor

Surface Plasmon Resonance (SPR) has been used to analyze a wide range of biomolecular interactions, including DNA–protein, antigen–antibody, protein–glycan or polysaccharide, protein–small ligand, DNA–small ligand, RNA–small ligand, receptor–drug, and receptor–virus interactions, etc. SPR enables label-free detection, which makes it possible to monitor complexes in a real-time fashion, and facilitates the isolation of complexes if necessary. SPR-based biomolecular analyses require only a small amount of sample to characterize the binding efficiency between the two ligands for the purpose of determining the rate constants. Although the analysis of biomolecular interactions is carried out routinely using SPR in batch mode, in recent years most biomolecular analyses have been routinely carried out in a high-throughput fashion that includes drug discovery. For this Special Issue, we invite authors to submit manuscripts that help to advance SPR methods and applications in various fields, including drug discovery, quality analysis, evaluation of macromolecular interactions, and high-throughput analyses of biomolecular interactions.

Guest Editor

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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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