Special Issue

Optical Biosensor with 2D Materials and Metamaterials

Message from the Guest Editor

Optical biosensors, a classical sensor type based on optical principles, can sensitively monitor the measured information and convert the information into optical signals or other forms of data according to certain rules. Owing to its advantages (e.g., non-contact and non-destructive measurement, little interference, and high sensitivity), optical biosensors support a wide range of applications in many fields. The realization and means of control for sensitivity optical biosensors, especially the related optical sensors, play a key role in optical measurement and biosensors. In particular, micro/nano optical biosensors, the size of an integrated chip, are the key to information detection and monitoring. Therefore, the realization and testing methods of micro/nano optical biosensors have become the center of attention in recent years. However, numerous problems that need to be further studied still exist, especially in combinations of 2D materials and metasurfaces. This Special Issue is dedicated to promoting current research on optical biosensors. Furthermore, we hope to further reveal the novel characteristics of optical biosensors.

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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