



Optical Biosensor with 2D Materials and Metamaterials

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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.





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Message from the Editor-in-Chief

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