



Advances, Challenges and Opportunities in the Use of 2D Materials for Biosensing and Biomedical Applications

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Message from the Guest Editors

Biosensing platforms that draw inspiration from the molecular identification function of living organisms have witnessed significant advances in sensing capability. Recent innovative developments in diagnostic devices have allowed for enhanced analytical performance, miniaturized sensors, multiplex analysis, and readout signal enhancement. Of particular interest are biosensors based on two-dimensional (2D) materials, which are characterized by their thin-layered structure and unique properties, making them highly useful in biosensing applications. Since the isolation of graphene in 2004, there has been an exponentially growing number of reports exploring the use of 2D materials in biosensing and other emerging healthcare applications.

For this Special Issue, we welcome the submission of original research papers and review articles that harness the inherent properties of 2D materials for biosensing applications. This Special Issue aims to explore the challenges and opportunities of the use of 2D materials in biosensing platforms.





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Message from the Editor-in-Chief

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