

Special Issue

Organic Two-Dimensional Material: Synthesis and Biosensing Applications

Message from the Guest Editor

As an analogue of graphene and other closely related inorganic two-dimensional (2D) materials such as transition-metal dichalcogenides, 2D organic materials including 2D covalent organic frameworks, 2D metal organic frameworks, 2D polymers and supramolecular polymers etc have attracted great attention of researchers. Their periodic porous structure, ultrahigh surface areas, well designable topology and electronic structures endow them great potential in applications in sensing devices. This special issue aims to summarize the recent progress in synthesis and biosensing application of 2D organic materials, including the design and synthesis of 2D organic materials toward the application of sensing device, such as the functionalization of 2D organic materials, strategies toward the synthesis of high quality thin films, application of these materials in sensing devices toward biorelevant targets from ions and biomolecules to proteins, viruses, and even bacteria and cells etc.

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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