## Special Issue

# Surface Chemistry and Surface Design to Improve Biosensing by Field-Effect Transistors

## Message from the Guest Editors

More than a half-century has witnessed the emergence of biosensors based on field-effect transistors as a superior tool to detect a variety of biomolecules and substances. During the recent decades, enormous time and efforts have been invested into FET biosensors to exploit them for determining numerous biomarkers (proteins, microRNAs, and so on) at ultra-low concentrations. They are therefore expected to play vital roles in diagnosis of chronic diseases as well as development of precision medicine in the future. This Special Issue welcomes high-quality publications including review, perspective, communication, and research articles related to recent advances in sensing technology by FETs, especially studies to improve FETbased biosensors for biomedical applications. The potential themes cover, but are not restricted to the following: materials for FETs; nano-structured transducers; probe design and synthesis; transducer fabrication techniques; surface modification methods; antifouling functions; sensing biomarkers of pandemic; improving sensitivity and detection limit; applications in biologics manufacturing (biomanufacturing)

#### **Guest Editors**

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## Deadline for manuscript submissions

closed (31 March 2022)



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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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