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## Special Issue: Field Effect Transistor based Biosensing: Development and Applications

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## Field-Effect Transistor Based Biosensing: Development and Applications

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submissions:

**30 May 2021**

### Message from the Guest Editors

Among various sensing methods currently available, field-effect transistor (FET)-based biosensors are advantageous due to their attractive features. A plethora of materials/devices have been developed to promote the understanding of FET-based biosensing technology, including ion-sensitive FETs, CNT based FETs, thin-film transistors, silicon nanowires, 2D materials, organic FETs, graphene FETs, and compound-semiconductor FETs. These materials/devices have been used for a variety of clinical applications such as detection of cardiovascular diseases (CVDs), COVID-19, proteins, enzymatic reactions, glucose, stress hormones (e.g., cortisol), cancers, HIV, and DNA sequences.

This Special Issue will highlight recent advancements in different advanced materials and FET devices for potential application in clinical diagnosis, point-of-care testing, and on-site detection. We encourage researchers to share their theoretical and experimental studies on a variety of topics in biosensors, including fundamental principles, synthesis of advanced and novel materials, and micro/nanomanufacturing techniques targeting the development of ultrasensitive biosensors for the above-mentioned applications.





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## Message from the Editor-in-Chief

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