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Embedded FET for Application as a Biosensor

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Deadline for manuscript submissions:
closed (16 August 2024)

Message from the Guest Editors

This Special Issue seeks to showcase research papers, short communications, and review articles that focus on advancing FET-based platforms, including its state-of-the-art and novel trends toward novel and innovative bioanalytical and molecular detection approaches.

We welcome manuscripts that address all aspects of FET engineering and integration for biosensor applications, including but not limited to the following topics:

- Low-dimensional materials for FET biosensors, e.g., nanowires and 2D-material-based FETs;
- Thin-film transistor (TFT)-based FET biosensors;
- Metal–organic framework (MOF)-based FET biosensors;
- Organic FET biosensors, e.g., paper- and polymer-based FETs;
- Nanoparticle-integrated FET biosensors;
- FET-based lab-on-a-chip and micro total analysis system (uTAS);
- Wearable and implantable FET sensors;
- Interfacial/surface engineering of FET biosensors;
- Light-addressable potentiometric sensor (LAPS);
- High-electron-mobility transistor (HEMT) biosensors;
- Artificial intelligence (AI) and machine learning (ML) in FET biosensors.

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Message from the Editor-in-Chief

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