

Special Issue

Embedded FET for Application as a Biosensor

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 (μ TAS);
- 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.

Guest Editors

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Deadline for manuscript submissions

closed (16 August 2024)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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