



Field-Effect Transistor-Based Biosensors

Guest Editor:

Dr. Kyung Ho Kim

Immunotherapy Research
Center, Korea Research of
Institute Bioscience and
Biotechnology (KRIBB), Daejeon
34141, Republic of Korea

Deadline for manuscript
submissions:

closed (31 May 2024)

Message from the Guest Editor

Dear Colleagues,

FET-based biosensors can detect biomarkers, proteins, and nucleic acids with high sensitivity and specificity. Lab-on-a-chip platforms incorporating FET biosensors have revolutionized healthcare by providing real-time, on-site diagnostics, reducing the need for centralized laboratories, and minimizing turnaround times. This advancement is pivotal in remote and resource-limited areas, ensuring timely disease detection and management. FET-based biosensors on lab-on-a-chip devices are poised to play a critical role in personalized medicine, early disease detection, and continuous health monitoring, making them indispensable tools in the future of healthcare.

Accordingly, this Special Issue seeks to showcase research papers, short communications, and review articles that focus on the following topics: (1) field-effect transistor platform development for biosensors using new technologies; (2) lab-on-a-chip-based FET platform for rapid detection and diagnosis; and (3) a point-of-care diagnosis system for on-site application etc.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry “Ugo Schiff”, University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

Contact Us

Biosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biosensors
biosensors@mdpi.com
[X@Biosensors_MDPI](https://twitter.com/Biosensors_MDPI)