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Advanced FET Based Sensors for Life Science Applications

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Message from the Guest Editor

This Special Issue addresses the design, implementation, modelling, characterization, validation, and/or optimization of FET-based biosensors using standard microfabrication technologies including CMOS or Open-Gate Junction Field-Effect Transistors (OG-JFETs). Additionally, this Special Issue covers topics related to FET-based sensors using nanomaterials such as carbon nanotubes or graphene for bioengineering or biomedical engineering applications such as drug testing or other fundamental biological studies.

Keywords

- Field Effect Transistor (FET)
- BioFET
- nanomaterials
- Ion-Selective Filed Effect Transistors (ISFET)
- Complementary-Metal-Oxide-Semiconductor (CMOS) based FET sensors
- pH sensors
- DNA detection
- Point-of-Care Disease Diagnostics (PoCDD)
- life science applications





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Message from the Editor-in-Chief

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