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Field-Effect Sensors: From pH Sensing to Biosensing

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Deadline for manuscript submissions:

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Message from the Guest Editors

Mainly, three types of (bio-)chemical field-effect sensors are discussed in literature, i.e., ISFETs (ion-sensitive field-effect transistors), most of the time called nanowire devices in nanometer dimensions, LAPS (light-addressable potentiometric sensors), and capacitive EIS (electrolyte-insulator-semiconductor) sensors. This Special Issue is devoted to the different types of field-effect devices and to the scopes of their applications, compiling examples of state-of-the-art technologies. The topic may include but is not exclusively related to:

- Device concepts for field-effect sensors for (bio-)chemical sensing;
- Modelling and theory of field-effect sensors;
- Nanomaterial-modified field-effect (bio-)chemical sensors;
- Field-effect sensors for biomedical analysis, food control, and environmental monitoring;
- Field-effect sensors for recording of neuronal and cell-based signals;
- Chemical imaging with field-effect sensors



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Message from the Editor-in-Chief

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