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Advanced Field-Effect Sensors

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editor

Dear Colleagues,

Field-effect devices have been extensively exploited for gas and pressure sensing. Photo-FETs are popular light intensity sensors. FETs, both the junction (JFET) and metal-oxide-semiconductor (MOSFET) type, are widely used as photodetectors and ionizing radiation detectors or dosimeters in medicine, and dentistry.

The advent of nanostructured materials in the past three decades has created opportunities to integrate new sensing materials or develop innovative architectures in field-effect-based sensors.

A great advantage of field-effect sensors is that they provide intrinsic signal amplification and can be integrated with the electronics needed for the sensor signal processing on the same semiconductor chip. Moreover, field-effect sensors feature high sensitivity, low-cost, and miniaturization.

The Special Issues will collect research papers reporting novel experimental, theoretical, or simulation results dealing with field-effect sensors. Review articles that offer comprehensive coverage of specific aspects or new insights and perspectives are welcome.

For more information, please clink: mdpi.com/si/52716.

Prof. Dr. Antonio Bartolomeo
Guest Editor

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Message from the Editor-in-Chief

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