



sensors



an Open Access Journal by MDPI

Advanced Field-Effect Sensors

Guest Editor:

**Prof. Dr. Antonio Di
Bartolomeo**

Department of Physics “E.R.
Caianiello”, University of Salerno,
84084 Fisciano, Italy

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 click: mdpi.com/si/52716.

Prof. Dr. Antonio Bartolomeo
Guest Editor



mdpi.com/si/52716

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)