



## Nanomaterials Based Sensors and the Application

Guest Editor:

**Prof. Dr. José Manuel Costa  
Fernández**

Department of Physical and  
Analytical Chemistry, University  
of Oviedo, 33006 Oviedo, Spain

Deadline for manuscript  
submissions:

**closed (15 July 2020)**

### Message from the Guest Editor

The Special Issue intends to collect contributions devoted to developing sensing systems based on the use of nanomaterials. Incorporation of nanoparticles in sensing schemes not only require specific methods of synthesis and proper characterization techniques, but additionally efficient nanomaterial functionalization is one of the key factors required before developing a reliable sensor.

Applications of nanomaterials based sensors for detection and/or screening of molecules of relevance in environment, industrial process control, food control and clinical diagnostics are also welcome.

Potential topics cover a wide range of research fields related to the fundamental and applied aspects for the sensor nanomaterials and their novel functionalities and applications, and include but are not limited to the following:

- development of nanomaterials for sensing and biosensing
- strategies of functionalization of nanomaterials for sensing purposes
- characterization of nanomaterials used in sensors
- development of hybrid sensing nanomaterials
- applications of nanomaterials in sensing
- sensing of nanomaterials in environmental and biological media





*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](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)