



## The Nanocomposites-Based Sensors

Guest Editors:

**Dr. Hamid Dalir**

Integrated Nanosystems  
Development Institute (INDI),  
Purdue School of Engineering  
and Technology, IUPUI,  
Indianapolis, IN 46202, USA

**Prof. Dr. Mangilal Agarwal**

Integrated Nanosystems  
Development Institute (INDI),  
Purdue School of Engineering  
and Technology, IUPUI,  
Indianapolis, IN 46202, USA

Deadline for manuscript  
submissions:

**closed (10 November 2021)**

### Message from the Guest Editors

The evolution of sensor engineering has resulted in spectacular developments over the years in many existing and emerging applications, including robotic technologies, human-machine interfacing, bioelectronic devices, and electronics skins. Owing to their unique and fascinating properties, nanocomposite-based sensors (NCSs) have been extensively studied in recent years. NCSs can be synthesized with several different approaches, thus allowing the realization of various novel chemical and biological sensors. Nanocomposites used in the fabrication of NCSs have been synthesized in various combinations, such as conductive polymers with graphene (Grp), carbon nanotubes (CNTs), and metal nanoparticles. This Special Issue will cover recent applications based on NCSs for the fabrication of electrochemical sensors, biosensors, immunosensors, aptamer sensors, flexible sensors, strain sensors, electrochemical sensors, optical sensors, gas sensors, pressure sensors, glucose sensors, pH sensors, humidity sensors, ultrasonic sensors, and amperometric sensors.





*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](#)