

Special Issue

Nanoparticles-Based Sensors

Message from the Guest Editors

One of the major challenges to be resolved by researchers is the design and development of reliable high sensitivity and low-cost sensors using novel nanoparticulate materials. The low dimensionality of nanoparticles results in excellent physicochemical properties, allied with their unique spectral and optical properties, have prompted the development of a plethora of (bio)sensing platforms. Nanoparticle-based sensors are gaining advantages in low cost point-of-care analysis of real samples, which involves complex sample matrices and even the need for wireless communications. For that reason, this Special Issue is intended to provide the most recent research results and emerging concepts in the challenging world of nanoparticles-based (bio)electrochemical sensors. The Special issue faces facile, sustainable scalable fabrication of nanostructured surface-based sensors using cutting-edge techniques such as screen or 3D printing technologies, looking for improving selectivity, fast response, long-term stability, and biocompatibility. Applications of nanomaterial-modified sensors for detection of relevant compounds in different fields.

Guest Editors

Prof. Dr. Edelmira Valero

Department of Physical Chemistry, Higher Technical School of Industrial Engineering, University of Castilla-La Mancha, Campus Universitario s/n, 02071 Albacete, Spain

Prof. Dr. Jesús Iniesta

Department of Physical Chemistry and Institute of Electrochemistry, University of Alicante, 03690 San Vicente del Raspeig, Spain

Deadline for manuscript submissions

closed (31 May 2021)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/51578

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)