sensors

an Open Access Journal by MDPI

IMPACT FACTOR 3.9

Indexed in: PubMed

CITESCORE 6.8

Advanced Nanomaterials for Sensing

Guest Editors:

Dr. Navpreet Kaur
Sensor Laboratory, University of Brescia and INSTM UdR Brescia, Via D. Valotti 9, 25133 Brescia, Italy

Dr. Mandeep Singh
Department of Physics, Politecnico Di Milano, Piazza Leonardo da Vinci 32, 20133 Milan, Italy

Deadline for manuscript submissions:
31 August 2024

Message from the Guest Editors

Advanced nanomaterials (organic or inorganic), such as graphene, 2D carbides and nitrides (MXenes), metal–organic framework (MOF), nano-heterostructures (core–shell, 3D branch-like, etc.) and so on, represent an ultrasensitive platform for developing next-generation sensing devices. In particular, their unique functional properties, such as high surface-to-volume ratio, porosity and exceptional physical/chemical properties, allow the selective detection of various chemical analytes, such as VOCs, environmental pollutants, biomolecules, etc. This Special Issue focuses on the synthesis, characterization and exploration of the functional properties of these advanced nanostructured materials for sensing applications. Moreover, the reports on novel strategies (surface functionalization, metal particle decorations, doping, etc.) that are used to enhance the performance of traditional sensing materials, such as nanostructured metal oxides, are also welcome.

Keywords: gas sensors; biosensors; optical sensors; metal oxides; nanostructures; graphene; metal–organic framework (MOF); MXenes; heterostructures; core–shell structures; self-assembly

sensors

IMPACT FACTOR 3.9 | Indexed in: PubMed | CITESCORE 6.8

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 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/sensors
sensors@mdpi.com
𝕏@Sensors_MDPI