Special Issue

2D Materials-Based Sensors and Nanoscale Devices

Message from the Guest Editor

Over the past decade, a series of two-dimensional (2D)layered materials have been successfully synthesized with several intriguing electrical, physical and chemical properties and used those for multifunctional sensory applications (such as optical sensors, chemical sensors, gas sensors, mechanical sensors, biological sensors etc.). Owing to the continuous progress in the synthesis and engineering of 2D materials, a varity of novel functionalities can be achievable either by creating heterostructures with various nanometerials or doping with foreign moleclues, which can offer extra degree of tunabilty and selectivity in sensor's performances. Furthermore, the flexible and transparent nature of 2D materials makes them a strong contender for nextgeneration wearble bio-electronic devices. This Special Issue is focused on 2D materials-based nanoscale sensor devices. The Editorial Board of the journal Sensors and myself are very pleased to announce this Special Issue and are looking forward to your contribution. Keywords

- optical sensor
- chemical sensor
- gas sensor
- mechanical sensor
- biological sensor
- detector
- pizeoelectric device
- molecular detector

Guest Editor

Dr. Subhrajit Mukherjee

Nanoscale Electronic Materials and Devices Laboratory, Faculty of Materials Science and Engineering, Technion – Israel Institute of Technology, Haifa 3200003, Israel

Deadline for manuscript submissions

closed (30 May 2023)



Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



mdpi.com/si/122579

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

mdpi.com/journal/ sensors





Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



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

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

