



sensors



an Open Access Journal by MDPI

2D Materials for Sensor and Biosensor Applications

Guest Editor:

Dr. Mikhael Bechelany

European Institute of Membranes
(IEM), University of Montpellier,
34090 Montpellier, France

Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editor

Dear Colleagues,

The aim of this Special Issue is to assemble original research and reviews in the design of 2D-based materials, as well as the investigation of their structural and chemical properties for sensing and biosensing applications. This Special issue will go from the synthesis and the modification to the characterization and the application of 2D materials in sensor and biosensor fields. It will also tackle the design of different functional 2D materials with controlled chemical composition and the functionalization/modification of surfaces for the construction of sensor/biosensor devices. The design of flexible and stretchable sensors/biosensors will also be considered.

All new concepts targeting the optimization of sensor and biosensor parameters by tailoring the structural properties and surface chemistry of 2D materials in order to achieve increased sensitivity, higher selectivity, and enhanced stability will be examined.



mdpi.com/si/102860

Special Issue



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

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)