



an Open Access Journal by MDPI

Plasmonic Biosensors for Point-of-Care (POC) Diagnostics

Guest Editors:

Dr. Anand M. Shrivastav
SRM Institute of Science and
Technology (SRMIST),
Kattankulathur, Tamil Nadu,
India

Dr. Marwan Abu Leil
Department of Electro-Optic
Engineering and the Ilse-Katz
Institute for Nanoscale Science
and Technology, Ben Gurion
University, Beer Sheva 84105,
Israel

Prof. Dr. Ibrahim Abdulhalim
Department of Electro-Optics
and Photonics Engineering and
the Ilse-Katz Institute for
Nanoscale Science and
Technology, Ben Gurion
University, Beer Sheva 84105,
Israel

Deadline for manuscript
submissions:
closed (30 December 2023)

Message from the Guest Editors

Dear Colleagues,

Plasmonic-based sensors have shown great potential in the development of point-of-care devices following extensive work over the past two decades, due to their high sensitivity, easy fabrication and the possibility of integration with other methods. These sensors operate by functionalizing a metallic surface with a specific receptor which, upon binding to the biomolecule (to be sensed), results in variations in the detectable parameter, such as the angle, wavelength or intensity, that represents changes in the resonance condition observed. Hence, choosing the appropriate materials, structures, reading methodology and functionality for plasmonic sensor fabrication is of great importance to developing biosensors that are highly specific for their application in real-life situations.

The present Special Issue, “Plasmonic Biosensors for Point-of-Care (POC) Diagnostics”, aims to assemble a diverse collection of works dealing with the development and integration of plasmonic transducers with advancements in modern technologies towards point-of-care testing devices.



mdpi.com/si/160427

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry “Ugo Schiff”, University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized.

Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

Contact Us

Biosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/biosensors
biosensors@mdpi.com
X@Biosensors_MDPI