

Special Issue

Fiber Based SPR Biosensors

Message from the Guest Editors

Surface plasmon resonance (SPR) is a well-known phenomenon that dates back to the late 1960s; since then, it has been exploited in countless applications not only for the development of lab demonstrators, but also in commercial equipment, so that it has de facto become the standard approach for the all-optical detection of chemicals and biochemicals. In particular, the implementation with optical fibers (in place of the early glass prisms) has improved both sensing performance and use flexibility, paving the way to the vast field of optical fiber surface plasmon resonance (OFSPR) sensing, which finds one of its elective fields of application in biosensing. This Special Issue of the international journal *Biosensors* aims at collecting and presenting the latest advancements in OFSPR for biomedical applications, from the design of new devices, to the experimental verification, up to the clinical application. Original research articles as well as review papers are welcome. Papers selected for this Special Issue are subject to a peer-review procedure with the aim of rapid and wide dissemination of research results. We look forward to receiving your outstanding research outcomes.

Guest Editors

Prof. Dr. Guido Perrone

Department of Electronics and Telecommunications, Politecnico di Torino, I-10029 Turin, Italy

Dr. Alberto Vallan

Politecnico di Torino, Department of Electronics and Telecommunications, corso Duca degli Abruzzi, 24, I-10129 Torino, Italy

Deadline for manuscript submissions

closed (30 September 2021)



Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed



mdpi.com/si/73487

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

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





Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed



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



About the Journal

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.

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).