

Special Issue

Recent Advances in SERS and SPR Technologies for Biosensors

Message from the Guest Editors

The main topic of this Special Issue focuses on (bio)sensors based on surface-enhanced Raman scattering (SERS) and fiber-optical surface plasmon resonance (SPR) technologies for the analysis of specific ions, chemicals, and biomolecules across various fields, including environmental monitoring, food contamination detection, medical diagnostics, and bioactive component analysis. We welcome original research articles and reviews in the following thematic areas:

- Novel SERS and SPR-based approaches for biological and chemical detection;
- Innovative technologies for the design of SERS and SPR-based (bio)sensors, including new insights into sensing principle and mechanism;
- Recent advances, critical evaluations, challenges, and future perspectives of SERS and SPR-associated (bio)sensors.

Guest Editors

Prof. Dr. Wei Ji

Chemical Engineering and Resource Utilization, Northeast Forestry University, 26 Hexing Road, Harbin 150040, China

Dr. Siyu Qian

School of Electronic Engineering, Heilongjiang University, Harbin 150080, China

Deadline for manuscript submissions

10 July 2026



Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed



mdpi.com/si/248634

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
Laustruccia 3, 50019 Sesto Fiorentino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Embase, CAPIus / 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 20.6 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).