



## Surface-Enhanced Raman Spectroscopy for Bioanalytics

Guest Editors:

**Dr. Cristina M. Muntean**

National Institute for Research  
and Development of Isotopic and  
Molecular Technologies, 400293  
Cluj-Napoca, Romania

**Dr. Sanda Boca-Farcău**

1. Interdisciplinary Research  
Institute in Bio-Nano-Sciences,  
Babes-Bolyai University, 400271  
Cluj-Napoca, Romania  
2. National Institute for Research  
and Development of Isotopic and  
Molecular Technologies, 400293  
Cluj-Napoca, Romania

Deadline for manuscript  
submissions:

**31 July 2024**

### Message from the Guest Editors

Bioanalytical spectroscopic techniques such as SERS have recently gained great development due to their capability for the analysis of biological samples, ranging from biomolecules to in vitro, ex vivo and in vivo systems. SERS is an effective analytical technique with excellent potential in bioanalysis and diagnosis. Being characterized by high sensitivity, specificity and multiplexing ability, the method can be used for a wide range of applications, from the rapid detection of specific analytes to the monitoring of the dynamic, complex structural changes of biomolecules within a biological system. Hence, through the use of SERS, new insights in medical diagnostics can be revealed for a better understanding of life processes and of the molecular mechanisms of various diseases.

The aim of SI is to highlight recent advances for bioanalytical SERS applied to biomolecules, pathogens, biofluids, detection of living cells, drug delivery, development of novel SERS substrates and Raman labels, analytical biosensing and SERS-based point-of-care technology. A comprehensive overview of the experimental design, data analysis and key challenges in bioanalytical SERS can be also considered.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Nicole Jaffrezic-Renault**

Institute of Analytical Sciences,  
UMR CNRS 5280, Department  
LSA, 5 Rue de La Doua, 69100  
Villeurbanne, France

## Message from the Editor-in-Chief

*Chemosensors* is an international, scientific, open access journal on the science and technology of chemical sensors published by MDPI. All articles are released on the internet immediately following acceptance. The journal publishes reviews, regular research papers, and communications. The scope of Chemosensors includes:

New chemical sensors design

Electrochemical devices, potentiometric sensor, redox electrode

Optical chemical sensors

Analytical methods

Environmental monitoring

Gas detectors

electronic nose, etc.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [CAPus / SciFinder](#), [Inspec](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (*Instruments & Instrumentation*) / CiteScore - Q2 (*Analytical Chemistry*)

## Contact Us

*Chemosensors* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/chemosensors](http://mdpi.com/journal/chemosensors)  
[chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)  
[X@chemosens\\_MDPI](https://twitter.com/chemosens_MDPI)