



The Application of Surface-Enhanced Raman Spectroscopy (SERS) Platform

Guest Editors:

Prof. Dr. Pei Liang

College of Optical and Electronic Technology, China Jiliang University, Hangzhou 310018, China

Dr. De Zhang

College of Horticulture & Forestry Sciences, Huazhong Agricultural University, Wuhan 430070, China

Deadline for manuscript submissions:

closed (31 May 2025)

Message from the Guest Editors

Surface-enhanced Raman spectroscopy (SERS) has been developed as a rapid spectral detection technology, which has the characteristics of high sensitivity, high accuracy, fingerprint spectrum and no interference from water molecules. With the rapid development of laser technology and the growing maturity of nano material preparation technology, SERS has been widely applied in the molecular adsorption on single crystal surface, chemical reaction mechanism, cell behavior in organism, food safety, environmental pollution, chemical weapons and artwork identification. Therefore, the topics covered in this Special Issue will involve the recent innovations in SERS platform for use in sensors, food safety and environmental applications. New detection strategy, algorithm research, SERS device and multi technology combination, as well as the synthesis and characterization of new nanomaterials for SERS sensor will be also covered in this Special Issue.

keywords:

SERS sensor

nanomaterials use for SERS enhancement

the detection of harmful substances

optimization of spectral algorithm

technology integration for sensor

SERS device





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Jin-Ming Lin

Beijing Key Laboratory of
Microanalytical Methods and
Instrumentation, Department of
Chemistry, Tsinghua University,
Beijing 100084, China

Prof. Dr. Nicole Jaffrezic- Renault

Institute of UTINAM, University of
Franche-Comté, UMR-CNRS 6213,
16 Gray Road, 25030 Besançon,
France

Message from the Editorial Board

Chemosensors continues to grow as a forum for all manners of sensing that encompass chemistry. *Chemosensors* is published in open access format – all articles and content are released on the internet immediately following acceptance, thus allowing unlimited access to the content as soon as it is published. We would be happy to have you join our growing list of authors.

Author Benefits

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

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

Journal Rank: JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Physical and Theoretical Chemistry)

Contact Us

Chemosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/chemosensors
chemosensors@mdpi.com
[X@chemosens_MDPI](https://twitter.com/chemosens_MDPI)