Special Issue

Nanomaterials in Chemosensors and Biosensors: Development and Application

Message from the Guest Editor

The emergence of engineered nanomaterials has opened doors to novel applications in numerous fields, including healthcare, engineering, manufacturing, aerospace, construction, automotive and others. The large surface-to-volume ratio of nanomaterials is well-suited to targeted functionalization as well as sensing. Chemosensors' and biosensors' specificity and sensitivity can be tailored via changes in the engineering nanomaterial shape, size, composition and surface chemistry. Nanomaterial biosensors have applications in healthcare diagnostics, food freshness and bioprocessing, among other areas. Materials falling under this category, including metal, metal oxides, carbon nanotubes, 2D materials, polymers, proteins or nanocomposites, can have a varied composition. Chemosensors can be used to detect gases and liquids for applications in environmental protection, industrial automation and safety. This Special Issue covers all aspects of such materials, ranging from theoretical considerations explaining the working principles of materials to their synthesis, characterization and application.

Guest Editor

Dr. Marko Spasenovic

Center for Microelectronic Technologies, Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Njegoševa 12, 11000 Belgrade, Serbia

Deadline for manuscript submissions

closed (31 March 2025)

Chemosensors

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 7.3

mdpi.com/si/145942

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

mdpi.com/journal/chemosensors

Chemosensors

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 7.3

mdpi.com/journal/chemosensors

About the Journal

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.

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

Author Benefits

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)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.5 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).

MDPI