Special Issue

Quantum-Dots Sensors

Message from the Guest Editor

The quantum confinement effects, the large surface-to-volume ratio, and the peculiar surface chemistry of quantum dots give such nanosized materials a tremendous potential as sensing tools in several applications, such as food and water analysis, environmental monitoring, bio-medical, safety and security, photonics, or space. To pave the way to high-performance sensors exploiting the unique properties of quantum dots, the last decades have seen a growing interest in the research and development of new nanosized inorganic and organic materials, new methods of synthesis and surface functionalization, innovative hybrid nanostructures, as well as new sensing concepts and transduction principles. Papers including but not limited to the following themes are expected: New synthesis and functionalization methods of quantum dot nanocrystals for sensing tools; the design and development of quantum-dot-based sensing elements; new detection principles; plasmonics; chemical sensors; bio-sensors; electrochemical sensors; optical sensors; photodetectors; and magnetic nanoparticle sensors.

Guest Editor

Dr. Gabriella Leo

Institute for the Study of Nanostructured Materials (ISMN), CNR Via Salaria km 29.300 00015 Monterotondo St. Rome, Italy

Deadline for manuscript submissions

closed (30 November 2021)

Chemosensors

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 7.3

mdpi.com/si/78223

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