Special Issue

Emerging Applications of Gas Sensors Based on Metal Oxides

Message from the Guest Editors

Gas sensors are essential devices in the sensor networks and Internet of things (IoT) applications. They also hold great promise in some emerging areas such as exhaled breath diagnosis, in addition to the detection of harmful, toxic and flammable gaseous molecules. Metal oxide semiconductor (MOx) nanostructures have been widely investigated as sensing layers in gas sensors, due to their high surface area to volume ratio, low cost, easy synthesis, and facile processing. Propelled by the advances of nanoscience and nanotechnology, a vast number of sensors have been developed from MOx such as SnO2, ZnO, WO3, In2□O3, etc. Great efforts have also been explored to develop strategies to optimize the sensing performance of MOx-based sensors towards detection in higher sensitivity, better selectivity, and lower power consumption. Currently, gas sensors are expected to be integrated into wearable and portable devices to realize more functionalities besides detection. To highlight the important progresses made in MOx sensors, the journal *Chemosensors* is going to publish a Special Issue on "Emerging Applications of Gas Sensors Based on Metal Oxides".

Guest Editors

Dr. Xianghong Liu
College of Physics, Qingdao University, Qingdao 266071, China

Dr. Nicola Donato
Department of Engineering, University of Messina, 98166 Messina, Italy

Deadline for manuscript submissions

closed (15 May 2022)

Chemosensors

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 7.3

mdpi.com/si/84939

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