



Metal Oxides Sensors: Innovation and Quality of Life

Guest Editors:

Prof. Dr. Elisabetta Comini

Sensor Lab, Department of Information Engineering, University of Brescia and CNR INO, Via Valotti 9, 25133 Brescia, Italy

Dr. Navpreet Kaur

Sensor Laboratory, University of Brescia and INSTM UdR Brescia, Via D. Valotti 9, 25133 Brescia, Italy

Deadline for manuscript submissions:

closed (20 September 2021)

Message from the Guest Editors

Dear Colleagues,

In SENSOR technology, metal oxides have been broadly exploited as gas sensors, biosensors, physical sensors, and optical sensors. Furthermore, moving from bulk materials to nanostructures, MO_x has opened new and terrific opportunities in the sensing field. Nanostructured metal oxides have been extensively explored to develop chemical–gas sensors and biosensors with high sensitivity and stability. However, a huge number of challenges still exists. The specific mechanisms of sensing involved in MO_x are complex and not fully understood. The main MO_x sensors' parameters are the sensitivity, selectivity, ability to work in real conditions, and the stability of characteristics over time.

The main aspiration is to assemble high-quality contributions focused on presenting a comprehensive overview of the new developments in the sensors field, specifically with regard to the promising approaches that will contribute to further development in MO_x sensors.

For more information, please click: mdpi.com/si/36670

Prof. Dr. Elisabetta Comini

Dr. Navpreet Kaur





sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

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

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

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

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)