

Special Issue

Gas Sensors for Environmental Applications

Message from the Guest Editors

Metal-oxide-based gas sensors (MOX) are popular in applications ranging from the detection of toxic gases to monitoring air quality and, lately, in medical diagnosis. The efforts of researchers working in this field are typically connected with the improvement of sensor sensitivity, selectivity and stability. The use of materials with nanosize dimensions evidently enables lowering the sensor power consumption and improving the response. A combination of different materials led to the manufacturing of heterostructures, whose properties can be controlled by using different synthesis methods. The important topics here are sensor morphology and structure. Recent advancements in characterization techniques revealed the important role of defect states in metal oxide nanomaterials. The mechanism of interaction of a given sensor with the ambient gas atmosphere is governed not only by the individual properties of the materials forming the structure, but also by the interfaces existing in the sensor heterostructure. For more details, please visit [here](#).

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Deadline for manuscript submissions

closed (25 October 2023)



Sensors

an Open Access Journal
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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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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.

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