Special Issue

Metal Oxides Sensors: Innovation and Quality of Life

Message from the Guest Editors

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, MOx 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 MOx are complex and not fully understood. The main MOx 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 MOx sensors. For more information, please clink: mdpi.com/si/36670

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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.

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