Special Issue

Novel Sensors Based on Metal Oxide Films and Structures

Message from the Guest Editor

Metal-oxide sensors began with Taguchi sensors, which have had widespread practical applications. However, they have limited sensitivity, selectivity, durability and lifetime and, because they have to operate at high temperatures, their power consumption is significant. All these features make their application in classical electronic noses less than favorable. Thanks to advances in nanotechnology, material science/processing, sensor signal processing and sensor excitation techniques over the last two decades, there has been progressive development in the field. This success, however, has brought new challenges that are topics of intensive research. Therefore, we decided to launch this Special Issue to provide a snapshot of this exciting progress. We welcome research papers, reviews, and current opinions (short notes on a topic by an expert) addressing the subject matter.

Guest Editor

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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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