

Special Issue

Advances and Application of Gas Sensors

Message from the Guest Editors

Global climate change is undoubtedly one of the biggest challenges that human beings are facing, whose effects will prevail for many years. Since this phenomenon is promoted by the massive emission of gases whose origin is quite diverse, the development of gas-sensing materials and devices has been an area of growing interest and research for decades. Other relevant applications of gas sensors can be found in the prevention of traffic accidents, detection of toxic atmospheres in industrial or residential areas, fire prevention, internal combustion engines, etc.. This Special Issue invites contributions about the development of sensors for environmental or hazardous gases based on 3D hierarchical metal oxide structures, nanostructured inorganic compounds, thin films.

Keywords:

- Environmental gas sensors
- Nanostructured oxides
- Semiconductor-based sensors
- Toxic gases detection

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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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