

Special Issue

Advanced Polymer-Based Gas Sensors

Message from the Guest Editor

Gas sensors play an important role in various fields, such as environmental monitoring, industrial/agricultural process control, and preliminary diagnosis of disease by breath analysis. Polymers are promising gas sensing materials because of their good processability, low cost, and easy chemical modification for selective gas detection. Furthermore, the use of polymers makes sensors more flexible and achieves low power consumption through low-temperature operation, which are advantageous for increasing portability and for applications to IoT technology. Various nanostructured polymer films, such as nanofibers, nanowires, nanorods, nanotubes, spherical particles, and other morphologies, have been reported as gas sensing films. This Special Issue aims to provide an overview of the recent progress and developments in the area of gas sensors based on polymers. Reviews and original research papers dealing with the fabrication of nanostructured polymers, control of film morphology, and their applications in gas sensing fields are welcome.

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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