

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

Prof. Dr. Masanobu Matsuguchi

Department of Materials Science and Biotechnology, Graduate school of Science and Engineering, Ehime University, 3-Bunkyo-cho, Matsuyama, Ehime 790-8577, Japan

Deadline for manuscript submissions

closed (31 December 2020)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/44087

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di
Bari, Via Orabona 4, 70126 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)