



sensors



an Open Access Journal by MDPI

Low Power Gas Sensors for Ubiquitous and Portable Applications

Guest Editor:

Dr. Cristian Fábrega

Department of Electronics and
Biomedical Engineering,
University of Barcelona, Martí i
Franquès 1, 08028 Barcelona,
Spain

Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editor

Dear Colleagues,

With the advent of Industry 4.0, IoT, and Smart City concepts, the need for cheaper, smaller, smarter, and, above all, less power-hungry gas sensor devices is a reality that requires and demands a paramount effort from the research and engineering community. Among the requisites, the most constraining and challenging is the need for less power-hungry sensors, meaning, from nearly-zero to microwatt power devices. The miniaturization of devices has been the pre-eminent approach despite it having been proved insufficient in most cases. Therefore, other approaches have been also explored: light-driven sensors, room temperature sensors, passive sensors, colorimetric sensors, NFC tags, etc.

This Special Issue of *Sensors* will focus on recent developments in low power gas sensor technologies. Original papers describing completed and unpublished work that are not currently under review by any other journal or magazine are solicited. Both reviews and articles are welcome.

Dr. Cristian Fábrega
Guest Editor



mdpi.com/si/47794

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

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.

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 & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)