



Chemical and Biological Sensors Applied to Environment and Health

Guest Editor:

Prof. Dr. Mari Carmen Horrillo Güemes

Tecnología de Sensores Avanzados (SENSAVAN), Instituto de Tecnologías Físicas y de la Información (ITEFI), CSIC, Serrano 144, 28006 Madrid, Spain

Deadline for manuscript submissions:
closed (10 July 2021)

Message from the Guest Editor

Dear Colleagues,

Sensors for measuring and detecting chemical and biological substances have been employed for a long time. In particular, chemical sensors have been developed, some with a general purpose, others—the most part—for a defined application. The recent progresses of this analytical technology (of low cost, simple handling, objective, and not invasive) in sensitivity, selectivity, reproducibility, and feasibility, are due to the use of microelectronic, microfluidic, and nano-technologies and to new signal-processing methods which have led to a greater integration of these systems for many applications for which portability is essential in order to measure compounds in situ and in real time in a non-destructive manner. For this Special Issue, applications of chemical and biological sensors in health and environment are of interest.

Research papers focused on the detection of toxic pollutants in the environment and on biomarkers to diagnose different diseases are invited.

Prof. Dr. M. Carmen Horrillo
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)