

Special Issue

Microbial Biosensors for Soil Monitoring

Message from the Guest Editor

Soils are the fundament of terrestrial ecosystems, providing essential ecosystem services. Soil damage has gradually been increasing due to anthropogenic activities and increased soil use. Loss of soil carbon, soil pollution, and erosion are global problems. This Special Issue aims to present innovative research focused on monitoring soil parameters using microbial biosensors or bioassays. This can include, but is not limited to, standard agrochemical parameters, biological parameters, as well as soil damage or pollution indicators. Laboratory studies as well as development of portable methods for in situ use are welcome. Of special interests are studies comparing standard analytical methods with bioanalytical processes. The methods should use living or dead microorganisms including genetically engineered organisms (bioreporters). Research papers, opinion papers, as well as critical reviews related to field are welcome.

- Soil quality
- Soil pollution
- Soil biosensors
- Soil bioassays
- Bioreporters
- Soil microbial communities

Guest Editor

Dr. Josef Trögl

Faculty of Environment, Faculty of Environment, Jan Evangelista Purkyně University in Ústí nad Labem, Czechia

Deadline for manuscript submissions

closed (28 February 2022)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 7.3
Indexed in PubMed



mdpi.com/si/41600

Sensors

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 3.4
CiteScore 7.3
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

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 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 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)