

# Special Issue

## Living Biosensors for Odor Detection

### Message from the Guest Editor

Some animals with excellent olfactory discrimination capabilities (i.e., dogs, mice, bees, etc.) can be conditioned to sniff and identify target volatiles. The conditioned animal can quickly recognize the unique odor of volatile organic compounds and exhibit various signal behaviors, acting as an animal nose sensor.

Animal nose sensors are mostly applied in the field of drug detection dogs or mine/explosive detection. When it comes to medical applications, animal nose sensors, which utilize the animal's sense of smell to detect disease-specific odors, are a technology that has all of these non-invasive and early detection benefits. There is growing interest in detection animals in the areas of forensic science, land security, and disease diagnosis. We invite original papers that address behavioral odor detection by animals. The topics of the Special Issue "Animal Nose Sensors" include narcotics detection, explosive detection, environmental monitoring, food safety detection, and disease diagnostics using animal olfaction. For detailed information, please visit [here](#).

---

### Guest Editor

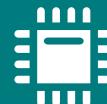
Dr. Moonil Kim

1. Korea Research Institute of Bioscience and Biotechnology (KRIBB), Daejeon 305-333, Republic of Korea
2. Critical Diseases Diagnostics Convergence Research Center, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Daejeon, Republic of Korea

---

### Deadline for manuscript submissions

closed (30 April 2022)



# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed

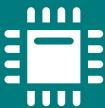


[mdpi.com/si/80710](http://mdpi.com/si/80710)

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

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





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/journal/  
sensors](http://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 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

