



## Electronic Nose: From Fundamental Research to Applications

Guest Editors:

**Prof. Dr. Fengdong Qu**

School of Microelectronics,  
Northwestern Polytechnical  
University, Xi'an 710071, China

**Dr. Dong Yao**

College of Chemistry, Jilin  
University, Changchun 130012,  
China

Deadline for manuscript  
submissions:

**closed (15 July 2025)**

### Message from the Guest Editors

Dear Colleagues,

Electronic nose devices have received considerable attention in the field of sensor technology during the past twenty years, largely due to the discovery of numerous applications derived from research on diverse fields of applied sciences. This Special Issue aims to collect recent research on electronic nose devices and their applications in agricultural, biomedical, cosmetics, environmental, food, manufacturing, military, pharmaceutical, regulatory, and various other scientific research fields, in addition to highlighting the future development of this rapidly expanding research area.

We are looking for submissions of original studies that highlight gas-sensing materials and electronic nose devices. Reviews that cover well-summarized prospects are also encouraged. The topics include, but are not limited to, the following:

1. Electronic noses;
2. Optoelectronic noses;
3. Gas sensors;
4. Signal processing.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

## 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), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)