



## High-Performance Gas Sensors: Materials, Technologies and Applications

Guest Editor:

**Dr. Bo Zhang**

Department of Electronic Engineering, School of Internet of Things Engineering, Jiangnan University, Wuxi 214122, China

Deadline for manuscript submissions:

**15 September 2024**

### Message from the Guest Editor

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- (1) Room-temperature gas sensors;
- (2) Promotion strategies for gas-sensing performance;
- (3) Applications of gas sensors in the detection of respiratory markers;
- (4) Applications of gas sensors in food safety;
- (5) Photoactivated gas sensors;
- (6) Applications of photonic crystals in gas sensors;
- (7) The mechanism exploration of gas sensors based on first principles;
- (8) Applications of new 2D materials and their composites in gas sensors;
- (9) Integration and array of gas sensors;
- (10) Signal processing of gas sensors;
- (11) Simulation methods for gas sensors;
- (12) Optimization of device structure for gas sensors.





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 guest-edited 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), CAPus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems 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)