



Novel Gas Sensing Approaches: From Fabrication to Application

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Deadline for manuscript submissions:

closed (20 February 2026)

Message from the Guest Editors

Novel methodological approaches and technological proofs of concept are the seed for the advancement of gas sensing research. These approaches can lead not simply to an incremental improvement but to a true paradigm shift with far-reaching impacts on society. Moreover, they have the crucial role of addressing existing limitations related to. This Special Issue seeks review articles and original, innovative **interdisciplinary research papers that could have a large societal impact** and showcase the recent advancements in gas sensing. We welcome the submission of papers concerning the following topics, though this list is not exhaustive:

- Proof of concept and development of new sensing materials;
- Novel gas sensor fabrication and integration methodologies;
- Improved gas sensor operation strategies;
- The implementation of Internet of Things (IoT) and effective data management;
- The implementation of AI/machine learning algorithms and advanced data processing;
- Air pollutant monitoring in indoor and outdoor environments;
- The deployment and evaluation of sensor systems and sensor networks;
- Innovative applications with large societal impacts.





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