



Gas Detection Sensors for On-Chip Applications

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Message from the Guest Editor

Significant developments have been achieved in the fields of chemosensors, nanosensors, and lab-on-a-chip systems through the utilization of novel functional materials, structures, devices, and systems at the nano- and microscale, providing improved sensing performances. The aim of this Special Issue is to explore recent progress related to these research fields for gas detection and its applications.

This Special Issue aims to publish state-of-the-art original articles and comprehensive reviews covering gas detection sensors for on-chip applications. Contributions may include different aspects in terms of novel design, fabrication, chemistry, analysis, applications perspectives, and so on.

The topics that will be covered include (but are not limited to):

- Optical fiber sensors;
- Pressure, temperature, humidity sensors for gas detections;
- Novel gas sensor lab-on-a-chip devices;
- Novel nano- and micromaterials for gas detections.





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Message from the Editor-in-Chief

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Optical chemical sensors

Analytical methods

Environmental monitoring

Gas detectors

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