

Special Issue on
Advances in Laser Gas Sensing

CALL FOR PAPERS

Trace gas sensing technologies are widely used in many applications, such as environmental monitoring, life sciences, medical diagnostics, oil and gas industry, and planetary exploration. Hence, gas sensors with high detection sensitivity and robust design are needed urgently.

Laser gas sensing techniques with the advantages of high sensitivity, noninvasiveness, and *in situ* real-time observation fill a distinct gap between low cost sensors with limited performance, such as electrochemical and semiconductor gas sensors, and expensive laboratory equipment, such as gas chromatographs and mass spectrometers. Therefore, in this special issue, original high quality papers about laser gas sensing techniques, especially about some advanced methods, are welcome. Also, review articles which describe the current state of the art are encouraged.

Potential topics include but are not limited to the following:

- ▶ Photoacoustic spectroscopy
- ▶ Tunable diode laser spectroscopy
- ▶ Cavity enhanced spectroscopy
- ▶ Laser-induced fluorescence spectroscopy
- ▶ Laser Raman spectroscopy
- ▶ Heterodyne laser spectroscopy
- ▶ Photothermal spectroscopy
- ▶ Self-mixing based spectroscopy
- ▶ Optical sensing technique
- ▶ Optical gas sensors applications

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jspec/alg/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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