Special Issue

Advances in Optical Gas Sensing Techniques

Message from the Guest Editor

Optical gas sensing techniques fill a crucial gap between low cost sensors with limited performance, such as calorimetric, semiconductor and electrochemical gas sensors, and expensive laboratory equipment, such as gas chromatographs and mass spectrometers. To-date, several high-resolution optical techniques have been largely investigated. These are based on non-dispersive sensing, spectrophotometry, and tunable diode laser spectroscopy. The latter includes several detection schemes, based on high finesse optical cavities, multi-pass cells, optical fibres and photo-acoustic effect. This Special Issue, entitled "Advances in Optical Gas Sensing Techniques", will focus on original papers reporting recent developments in these techniques, new insights in gas-sensing methods, as well as on the important key sensing components and on field-testing applications. Reviews should provide an up-to-date overview of the current state-of-the-art of a particular optical gas sensing technique corroborated with results from other research groups. We look forward to, and welcome, your participation in this Special Issue.

Guest Editor

Prof. Dr. Pietro Patimisco

PolySense Lab, Physics Department, University and Politecnico of Bari, 70126 Bari, Italy

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Inventions
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
inventions@mdpi.com

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