



Advances in Optical Gas Sensing Techniques

Guest Editor:

Prof. Dr. Pietro Patimisco

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

Deadline for manuscript
submissions:

closed (31 May 2017)

Message from the Guest Editor

Dear Colleagues,

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





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Chien-Hung Liu

Department of Mechanical
Engineering, National Chung
Hsing University, 250 Kuo Kuang
Rd., Taichung 402, Taiwan

Prof. Dr. Shoou-Jinn Chang

Department of Electrical
Engineering, National Cheng
Kung University, Tainan 701,
Taiwan

Message from the Editorial Board

The unique journal *Inventions* is different from all other journals. Many scholars spend their lives publishing research papers in many different journals, but most of these journals do not help scholars collate and analyze their results or assist in promoting them to a relevant industry. However, *Inventions* will help authors not only to publish their papers in the journal, but also to promote their research results to industry and assist them in realizing the purpose of technology transfer. In the future, *Inventions* will help authors to evaluate their technology license fees based on the valuation theory and approaches and also help authors to show their patents and technologies on a network transaction platform.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, ESCI (Web of Science), Inspec, Ei Compendex and other databases.

Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Inventions Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/inventions
inventions@mdpi.com