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Advances in Analytical Systems for Gaseous Mixture

Guest Editors:

Dr. Stéphane Le Calvé
Institute of Chemistry and Processes for Energy, Environment and Health (ICPEES, UMR 7515), CNRS and University of Strasbourg, 25 rue Becquerel, 67087 Strasbourg, France

Dr. Sulaiman Khan
Max Planck Institute for the Science of Light & Max-Planck-Zentrum für Physik und Medizin, 91058 Erlangen, Germany

Deadline for manuscript submissions:
closed (20 July 2022)

Message from the Guest Editors

This special issue is dedicated to the recent novel and state-of-art approaches applied in the design of analysis systems for gaseous mixtures. The issue will explore new designs of gas sampling, gas fluidics and detection architectures developed to improve the performances of the device such as sensitivity, time-resolution, selectivity, portability, and its applications in different domains. The issue is focused on the following topics but not limited to it:

- On-line analysis system for gaseous mixture
- Gas analysis instrumentation
- Gas sensors (Optical sensors, metal oxide sensors, acoustic sensors, photoionization detectors, electrochemical sensors, …)
- Gas chromatography
- Pre-concentration units
- Different sampling techniques
- Micro gas flow (Numerical and experimental research)
- MEMS-based systems
- Different data analysis approaches like deep learning for gases detection

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Editors-in-Chief

Prof. Dr. Nicole Jaffrezic-Renault
Institute of Analytical Sciences, UMR CNRS 5280, Department LSA, 5 Rue de La Doua, 69100 Villeurbanne, France

Prof. Dr. Jin-Ming Lin
Department of Chemistry, Beijing Key Laboratory of Microanalytical Methods and Instrumentation, Tsinghua University, Beijing 100084, China

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Contact Us

Chemosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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chemosensors@mdpi.com
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