



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

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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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Editor-in-Chief

Prof. Dr. Nicole Jaffrezic-Renault

Institute of Analytical Sciences,
UMR CNRS 5280, Department
LSA, 5 Rue de La Doua, 69100
Villeurbanne, France

Message from the Editor-in-Chief

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Analytical methods

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Chemosensors Editorial Office
MDPI, St. Alban-Anlage 66
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