



Advances in Analytical Systems for Gaseous Mixture

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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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