

Tentative Outline

Special Issue for "Current Analytical Chemistry"

(Analytical applications of Chemiluminescence and Fluorescence spectroscopy)

Guest Editor: Dr. Amir Waseem

Aims & Scope:

The use of chemiluminescence/fluorescence spectroscopy for the trace level detection of variety of analytes have received enormous interest in the applications field. Especially when chemiluminescence/fluorescence coupled to other analytical techniques such as HPLC, CE or simply with flow injection manifold becomes a powerful tool in the field of analytical chemistry. Many advances in this field was observed since last few decades. For example, the Flow CL assays, like Microfluidic Devices or Lab-On-Chip, which has the key advantage of reducing sample/reagent consumption and analysis time, and realizing automatic, compact and highly integrated flow detection systems. Similarly, the availability of highly sensitive, highly selective fluorescent labelling techniques makes fluorescence a widely used optical method for molecular sensing in normal or in microfluidic systems.

Keywords: Lab-on-chip, microfluidics, point-of-care devices, electrochemiluminescence, Biomolecules.

Subtopics:

The subtopics to be covered within this issue are listed below:

- Chemiluminescence/electrochemiluminescence coupled with flow injection analysis.
- Lab-on-chip/ μ TAS/microfluidics devices coupled with chemiluminescence/electrochemiluminescence/fluorescence.
- Paper based devices using chemiluminescence/electrochemiluminescence/ fluorescence detection.
- ELISA chemiluminescence/electrochemiluminescence/fluorescence sensors.
- Theoretical aspects/reaction mechanisms of chemiluminescence/ electrochemiluminescence / fluorescence.
- HPLC/CE using chemiluminescence/fluorescence detection methods.

Schedule:

- ✧ Manuscript submission deadline: 31st May 2021
- ✧ Peer Review Due: 31st July 2021
- ✧ Revision Due: 1st September 2021
- ✧ Announcement of acceptance by the Guest Editors: 15 October 2021
- ✧ Final manuscripts due: 1 November 2021

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