

Tentative Outline

Special Issue for “Current Analytical Chemistry”

(Fluorescence sensors)

Guest Editor: Dr. Ibrahim YILMAZ

Aims & Scope:

Fluorescence spectroscopy is an analytical tool used in many scientific fields such as environmental and clinical chemistry, drug, genetic biomolecular analysis, and it provides fast accurate and reliable results. Development of fluorescence sensors is attracting more and more attention of scientists in recent years. These sensors have been widely used in the field of life science, because they have some advantages such as the visualizing and imaging of biologically active species, high sensitivity, good selectivity, short response time and operational simplicity at molecular or supramolecular levels. The numbers of applications and detectable species related to sensors are increasing day by day. Thus, there is a great need to develop new sensors for the detection of species at the low detection limit with good selectivity.

This special issue is aim to introduction new fluorescent sensors as analytical approach in determination of molecular species, anions and cations in biological, environmental and food samples. The special issue includes research papers, review articles and short communications covering a wide range of current progress on fluorescent sensors.

Keywords: Fluorescent sensors, colorimetric sensor, bioimaging, probe desing, fluorophore, near-infrared

Subtopics:

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

- Fabrication technology of fluorescent chemical sensors, biosensors, chip-based detection devices
- Synthesis and characterization of new fluorophores
- Paper based devices using fluorescence detection
- Novel chemical sensing concepts, mechanisms and detection principles
- Computational and theoretical aspects of sensors
- Live cell imaging

Schedule:

- ✧ Manuscript submission deadline: 31st June 2020
- ✧ Peer Review Due: 31st August 2020

- ✧ Revision Due: 1st October 2020
- ✧ Announcement of acceptance by the Guest Editors: 15 November 2020
- ✧ Final manuscripts due: 15 December 2020

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