

Tentative Outline

Special Issue for “Current Analytical Chemistry” (Photo/electrochemical techniques for pollutant removal and detection)

Guest Editor: Dr. Jingdong Zhang

Aims & Scope:

The environmental problems have become increasingly serious in the world. Many techniques have been developed to remove and detect environmental pollutants. Among them, photocatalytic, electrochemical and photoelectrocatalytic processes have attracted much attention for the removal of pollutants due to their high efficiencies, mild conditions and low secondary pollution. On the other hand, electrochemical, spectrochemical and photoelectrochemical methods have provided fast, sensitive and low-cost approaches to pollutant detection. Nevertheless, improving the removal efficiency or the detection sensitivity is still a challenge in the photo/electrochemical studies of pollutants. This special issue focuses on the promotion of photo/electrochemical techniques for pollutant removal and detection by the combination of different photochemical and electrochemical processes or by the development of photocatalytic and electrochemically active materials.

Keywords: photocatalysis, photoelectrocatalysis, electrochemistry, spectroscopy, pollutant removal, and pollutant detection

Subtopics:

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

- * Degradation of pollutant by photocatalytic, electrochemical, or photoelectrocatalytic process
- * Electrochemical or spectrochemical detection of pollutant
- * New photoelectrochemical sensors for pollutant monitoring

Schedule:

- ✧ Manuscript submission deadline: 1 July 2020
- ✧ Peer Review Due: 1 October 2020
- ✧ Revision Due: 30 November 2020
- ✧ Announcement of acceptance by the Guest Editors: 15 December 2020
- ✧ Final manuscripts due: 1 January 2021

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