Special Issue

Electrochemiluminescence Sensor and Applications

Message from the Guest Editor

Electrochemiluminescence (ECL) is a means of converting electrical energy into radiative energy. Due to its combined advantages of chemiluminescence and electrochemical control, interest in ECL has rapidly increased. In sensing applications, the ECL sensor unites the high selectivity of biological recognition elements and the high sensitivity of ECL analysis methods. Hence, it is a powerful analytical tool which provides sensitive detection of different analytes of interest in medical prognosis and diagnosis, food control, and the environment. This Special Issue aims to showcase developments in novel ECL systems and sensing and highlight representative works in ECLM in terms of their scientific significance. Potential topics include (but are not limited to):

- Metal ions sensing;
- Small molecules sensing;
- Protein sensing;
- Genosensing;
- Cells, bacteria, and virus sensing;
- ECL microscopy for single-nanoparticle electrocatalysis;
- ECL microscopy for single-cell analysis.

Guest Editor

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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