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Photoelectrochemical (Bio)sensors for Biological, Food, and Environmental Analysis

Guest Editors:

Prof. Dr. Li Niu

1. School of Chemistry and
Chemical Engineering,
Guangzhou University,
Guangzhou 510006, China

2. School of Chemical
Engineering and Technology, Sun
Yat-sen University, Guangzhou
510276, China

Dr. Qiong Hu

Centre of Advanced Analytical
Science, Guangzhou University,
Guangzhou 510006, China

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Message from the Guest Editors

Photoelectrochemical (PEC) (bio)sensors are a new class of analytical devices operating on the basis of the PEC properties of materials and can be applied to the (bio)sensing of various biological targets, metabolites, food/beverage/cosmetic ingredients, environmental pollutants. In recent years, to overcome the possible defects of a single material, versatile composites have been constructed to heterojunctions for improving PEC response sensitivity and selectivity to a specific analyte of interest.

This Special Issue of Chemosensors focusses on the design and development of PEC (bio)sensors, especially their applications in biological, food, and environmental analysis. We look forward to receiving papers on the relevant topics.

- Photoelectrochemical(bio)sensors
- Novel materials for PEC (bio)sensing
- Novel PEC (bio)sensing principles
- Immunosensors
- Imprinted polymers
- Functional nanomaterials
- Semiconductor nanomaterials
- Heterojunctions
- Aptasensors
- Disease diagnostics
- Environmental analysis
- Food analysis
- Air pollutants



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Editors-in-Chief

Prof. Dr. Nicole Jaffrezic-Renault

Institute of Analytical Sciences,
UMR CNRS 5280, Department
LSA, 5 Rue de La Doua, 69100
Villeurbanne, France

Prof. Dr. Jin-Ming Lin

Department of Chemistry, Beijing
Key Laboratory of Microanalytical
Methods and Instrumentation,
Tsinghua University, Beijing
100084, China

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Chemosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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