Special Issue

Advanced Electrochemical Sensors or Biosensors Based on Nanomaterial

Message from the Guest Editors

Integration of nanomaterials in the development of electrochemical sensor and biosensor provides enhancing of the electroanalytical performances, i.e., sensitivity, selectivity and the lowest limit of detection. Also, specific characteristics related to fast signal, stability, the life-time and miniaturization are improved. It is well-known that the electrode material plays the key role in sensing performance through a large variety of analytical procedures. Functional nanomaterials can produce a synergic effect among electrocatalytic activity, enhanced electroactive surface area and biocompatibility to accelerate the signal transduction for all or specific targeted analytes. Coupling different electrochemical methods with design of a large variety of functional nanomaterials for the electrode composition, e.g., carbon nanomaterials nanomaterials, magnetic nanomaterials, widens the practical application of electrochemical sensors and biosensor in medical, food and environmental fields.

Keywords:
electrochemical devices and sensors;
materials for chemical sensing;
nano-and micro-technologies;
bioanalytical chemistry;
quantitative analysis;
drug and medico-diagnostic testing

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Chemosensors continues to grow as a forum for all manners of sensing that encompass chemistry. *Chemosensors* is published in open access format – all articles and content are released on the internet immediately following acceptance, thus allowing unlimited access to the content as soon as it is published. We would be happy to have you join our growing list of authors.

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