Special Issue

Biosensors Based on Self-Assembly and Boronate Affinity Interaction

Message from the Guest Editor

Biosensors show promising prospects in the assays of various targets due to their advantages of high sensitivity, good selectivity and rapid response. Self-assembled nanomaterials have witnessed tremendous progress in a variety of biosensing and biomedical applications due to their intriguing characteristics, such as facile processability, structure tailoring and excellent biocompatibility. Molecular recognition is a key event of biosensors. Boronic acid-based materials have been widely used as synthetic receptors for the specific recognition and detection of cis-diol-containing species. Contributions to this Special Issue should cover the advances in biosensors based on self-assembly and/or boronate affinity interaction. The analytes include small molecules, nucleic acids, proteins, enzymes, exosomes, virus and cells.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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