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Enzyme-Based Biosensors and Their Applications

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Message from the Guest Editor

Enzyme-based biosensors are often used in the development of practical analytical tools for the detection of target analytes in complex biological systems, owing to their specific activities toward substrates. In recent decades, exhaustive efforts have been made by biochemists to develop a variety of enzyme-based biosensors with improved specificity, high sensitivity and good practicability, while some among them have been successfully used for sensing target analytes in real samples and living systems. Meanwhile, multiple advanced concepts and multidisciplinary approaches have been utilized in the design and development of novel and practical enzyme-based biosensors, including electrochemical and optical biosensors.

This Special Issue of Biosensors is intended to provide a platform for presenting the recent advances in the design and development of innovative enzyme-based biosensors, as well as their applications in a wide range of areas including, but not limited to, health care, drug discovery, environmental monitoring, food safety research, and fundamental studies. All papers on the development of enzyme-based biosensors and their applications are welcomed.



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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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