Special Issue

Biofuel and Biosolar Cells as Biosensing Systems

Message from the Guest Editor

The use of biofuel and biosolar cells as biosensing systems is enabling exciting research possibilities and applications, from performing the on-line monitoring of contaminated solutions to developing wearable self-powered biosensors, as well as performing semi-artificial photosynthesis for monitoring toxic compounds. It is my pleasure to invite you to contribute in this Special Issue. The present Special Issue is devoted to all aspects of the application of biofuel and biosolar cells for biosensing, including but not limited to the self-powered monitoring of organic and/or toxic compounds, wearable devices, fundamental studies on the mechanisms of operation of the biosensing systems, engineering of the biosensing platform, artificial tuning of the biotic/abiotic interface, supercapacitive operation, etc. Studies utilizing enzymes, isolated bacterial reaction centers and photosystems, organelle, and intact bacterial cells and algae are welcome. Perspective articles discussing recent advancements and challenges in biofuel and biosolar cells for biosensing are also welcome.

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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