Special Issue

Bioelectrochemical Systems for Light Energy Conversion

Message from the Guest Editor

The rising environmental concerns have stimulated a considerable focus towards sustainable energy and green chemistry production. Light-driven bioelectrocatalysis is a multidisciplinary and timely subject considering a number of bioelements, from photosynthetic proteins to entire microorganisms. It holds a great potential for sustainable electrical energy generation, biosensing and bioproduction of chemicals and fuels. This Special Issue aims to present a collection of high-quality papers highlighting the latest research on the light harvesting bioelectrochemical systems and on the underlying electron transfer processes. We encourage research groups to contribute to the Special Issue with original research and review papers that address photosynthetic proteins, membranes, organelles and whole cell photobiolectrochemistry, biophotovoltaics and photosynthetic microbial fuel cells, considering natural and engineered photobiocatalysts, new electrode materials and their various designs and architectures, advanced mediators and surface modifications for improved operational performance of photobioelectrodes and complete biodevices.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

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