

Special Issue

Recent Advances in Microbial Electrochemical Systems: Application Processes and Characterization Tools

Message from the Guest Editors

Bioelectrochemical systems (BESs) use microbial electrochemical technologies (METs) in which microorganisms act as biocatalysts enhancing specific oxidation or reduction reactions. In METs, microorganism catalysts bring the oxidation reaction to the anode and a reduction reaction to the cathode. These electroactive microorganisms are capable of releasing electrons to the electrode (anode) or accepting electrons from the electrode (cathode) through their metabolism. It could be applied to energy production, green chemicals production, bioremediation, biosensors, etc. This Special Issue on “Recent Advances in Microbial Electrochemical Systems: Application Processes and Characterization Tools” seeks high-quality works focusing on the latest novel advances in microbial electrochemical technology. Topics include, but are not limited to:

- Advanced Electrode Materials;
- Bioelectrochemistry of Biofilms;
- Biosensing Applications of MESs for Microbial Detection;
- Bioremediation Technology on Wastewater and Bioresource Recovery;
- Novel MES Structures.

Guest Editors

Prof. Dr. Chyi How Lay

Prof. Dr. Jane-Yii Wu

Dr. Peer Mohamed Abdul

Deadline for manuscript submissions

closed (15 September 2024)



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Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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