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

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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.



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Message from the Editor-in-Chief

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