



Microbial Fuel Cells

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Message from the Guest Editor

Dear Colleagues,

Microbial fuel cells (MFCs) are innovative devices that possess great potential in treating wastewater and generating energy simultaneously by electrochemically active bacteria (EAB). While fundamental applications of MFCs are treatment of wastewater and production of electricity, many other applications have emerged over the years. MFCs can operate electrical systems and wireless sensors that require low power to transmit signals to receivers in remote locations. MFCs can be used power a cell phone, biosensor to monitor pollutants present in wastewater, and implantable medical device. The electrical energy harvested from an MFC can be stored in rechargeable devices such as capacitors and batteries, which are then used for various electrical devices. For the implementation of MFCs, exploring sustainability (e.g., efficiency, reliability, cost effectiveness) is greatly important. This Special Issue will focus on recent advancement of MFC technologies that explore sustainability.

- advancement
- application
- sustainability
- innovation
- implementation
- efficiency
- reliability





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Message from the Editor-in-Chief

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