Special Issue

Microbial Fuel Cells

Message from the Guest Editor

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

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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