

Performance of Microbial Fuel Cell Using Wastewater

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Microbial Fuel Cell(MFC) can be used to generate electricity from various from of organic matter. The power produced depends largely on the system architecture and internal resistance, bacteria on the anode, type of organic matter, chemical characteristics of medium (solution conductivity, pH and chemical concentration).

This study describes and evaluates a computational model for MFC based on redox mediators with several populations of suspended and attached biofilm microorganisms, and multiple dissolved chemical species.