

Peer Review

Review of: "Industrial Scale-Up Variability and Life Cycle Assessment of Microbial Fuel Cells"

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This article has tried to explore the recent advances in the field of microbial fuel cells and its possibility of commercialization from a socioeconomic viewpoint. This is a good essay that, in broad concept, has properly explained some boundaries and challenges in the industrial scale-up of microbial fuel cells. However, it has not covered the specific technical issues. Discussion of the following issues will help to strengthen the article from technical viewpoints as well.

1. Interference effects and internal resistance in the cell during the generation of electricity from organic matter
2. Lifecycle of electrode materials and membranes of MFCs and their maintenance costs
3. Efficacy of membranes after repeating cycles and recent advancements in membrane efficiency
4. Microbial specificity
5. Controlling mechanisms of the overgrowth of biofilm
6. Effect of environmental conditions such as pH, temperature, and substrate concentrations.

Declarations

Potential competing interests: No potential competing interests to declare.