

Peer Review

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

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The review on the up-scaling of MFC for industrial purposes based on its viability and LCA is a great overview of the MFC and its applications. However, it requires some corrections, especially in terms of improving the English and terminology used in the paper. The abstract requires extensive revision because the start of the abstract doesn't fit the good quality of the review paper.

Table 1 can include the application of electricity production using MFC.

Figure 4 in the paper highlights the research carried out on MFC, its LCA, and upscaling studies. Along with this, the authors should highlight what type of waste and what output the authors are emphasizing in these studies. Because the MFC might have waste effluent as biomass/agri waste, and since the authors' major focus is wastewater, an improvement is required for this portion of the study.

The title of the paper highlights the LCA-based assessment, but the paper doesn't include much on the LCA-based studies. It should include an extensive number of facts and figures related to the LCA of MFC. The authors should avoid discussing the LCA framework since this framework is more or less being widely used for LCA studies. The authors should specify some major impacts of MFC in upscaling and improvement in emissions by means of LCA.

However, the study requires a review of the English language from an expert.

Thanks

Declarations

Potential competing interests: No potential competing interests to declare.