

Review of: "On-Line Monitoring of Minor Oil Spills in Seawater Using Sediment Microbial Fuel Cells: A Preliminary Study"

Huzairy Hassan¹

¹ Universiti Malaysia Perlis

Potential competing interests: No potential competing interests to declare.

This paper requires major revisions for the following concerns:

1. No proper citations are mentioned when saying ("previous studies..")
2. Recommended to include the setup of the sMFC diagram for better presentation of the MFC experiments.
3. References like 'Del-Compo, Hamilton, Lesser, Zhou, etc., are absent (not cited) in the texts.
4. The use of the term "fuel cell," rather than MFC, as the better and rightful term might raise confusion among readers.
Please standardize the use of the 'MFC word' throughout the paper.
5. ..water and air? MFCs are not functioned for air contaminant removal.
6. No detailed explanation / experiment - How is the sMFC used as a biosensor for the decrease in voltage by the addition of oil? What is the minimum concentration of oil for the sensor to function?
7. Poor citations for the previous studies, especially in discussing "Effect of Oil Doping on Voltage Output". Only 'Dai et al. 2021' is being referred?
8. Figure 2 has 2 graphs? Is one for the polarization curve and another one is for the power curve. For the power curve, you need to have a power axis. Please label them properly.
9. The paper might require more results (and thus more references using the latest literature on this field), especially on the oil reduction profile, biofilm or electrogenic analysis, CV, and/or CE, for eligibility as a published work in this journal.