

Review of: "Implementing Simulation Software to Develop Virtual Experiments in Undergraduate Chemical Engineering Education"

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Potential competing interests: No potential competing interests to declare.

The research topic is current and captures significant attention. However, in order to become publishable, revisions have to be made. Here are my suggestions:

In the introduction section, research on virtual laboratories and their usage should be referenced, i.e., <https://dl.acm.org/doi/abs/10.1145/3291533.3291560>, <https://doi.org/10.12681/icodl.2288>.

In the second paragraph, no reference for the “national board of accreditation (NBA) is targeting achieving Outcomes-based education (OBE)” is provided.

Recent research should be used.

This sentence is not correct: “Traditional laboratory practices do not have activities to prepare the student to be a future practicing scientist.” It should be changed.

At the end of the introduction section, the purpose of the paper and how it is structured should be mentioned.

A paragraph describing process flow diagrams (PFD) and their advantages in learning should be added in the introduction or Development of Virtual Experiments section.

A paragraph with results discussion would strengthen this research. You could use the following papers for discussion: <https://doi.org/10.46354/i3m.2021.mas.004>, <https://dl.acm.org/doi/abs/10.1145/3437120.3437267>, <https://doi.org/10.46354/i3m.2022.mas.002>