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 paper is well articulated and provides insights regarding the application of UniSim and Simulink for reaction engineering, mass transfer operations, and process instrumentation courses.

As this paper relates to the 3 courses, I would like to know how the results were analyzed (Fig 14) (like rubrics—is it the same for all, and if so, were their averages reported)? Need some clarification here. Also, mention the thermodynamic package used for CSTR, PFR, and simple distillation. It would be better if results were shown in a table format regarding the initial feed composition, final distillate, and residue compositions to provide better clarity for distillation.

With respect to CSTR and PFR, conversion at different temperatures and rate constant values will give a better analysis of results if tabulated in a table.

Were you able to analyze which level of metacognitive skills was improved? This can be incorporated in the abstract and conclusion parts.