

# Review of: "Recycling of Waste Bamboo (*Bambusa vulgaris*) into Value-Added Platform Chemicals: Bioethanol and Bioethylene"

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Potential competing interests: No potential competing interests to declare.

**General Comments:** The paper is focusing on the innovative use of waste bamboo for bioethanol and bioethylene production, which is relevant for sustainability and environmental preservation.

However, the manuscript currently does not meet the standard format expected of a scientific research article. The structure and presentation resemble a less formal approach, which may not align with the rigorous standards of a reputable academic journal. Significant revisions are necessary to elevate the manuscript to a professional level, including restructuring according to conventional scientific article formats. This would greatly enhance its chances of acceptance in a reputable journal.

## Areas for Enhancement:

1. The abstract lacks specific outcomes such as the yield of bioethanol and bioethylene, which are crucial for summarizing the research impact.
2. Key terms such as "SHF" and "catalytic dehydration" are not explained.
3. Methodology - most of the figures were not worth including in the manuscript.
4. Improve the titles and quality of Figures 6-8 to better represent the processes.
5. The fractional distillation setup in Figure 9 lacks visible details of the fractionating column.
6. *Saccharomyces cerevisiae* is a yeast, not an enzyme.
7. Provide more detailed conditions for Steps 3 and 4, and describe methodologies for product characterization.
8. Table 1 and Table 2 can be combined to facilitate easier comparison of bioethanol and conventional ethanol.
9. No characterization studies were conducted on the bamboo waste.
10. The discussion needs more detailed quantitative data to support the comparisons and claims made.