

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 article addresses an intriguing topic and is generally well-written; however, it requires significant revisions. The methodology section needs to be drastically modified. The results table appears incomplete and seems like a preliminary draft. The conclusion should include future scenarios based on the study findings. Overall, the article needs improvements in all sections, including language, figures, style, data presentation, and all other aspects, before it can be considered for publication.

Specific Comments

1. The introduction needs corrections, including the addition of hypotheses and objectives in the final paragraph.
2. In step 3, please specify the source of the enzyme used for pretreatment (whether prepared in-house or procured from an external source). If procured, please provide details of the source.
3. In Step 4, please specify the exact quantity of the enzyme and the enzyme-to-substrate ratio used in this process.
4. In Step 5, Figure 10: How did the calculation for 65% bio-ethanol production come from the 2 kg bamboo mass? If I'm not mistaken, it might be 40% instead of 60%.
5. Similarly, In Step 6, Figure 11: How did the calculation for 53% bio-ethylene production come from the 500 ml of bio-ethanol? If I'm not mistaken, it might be 42% instead of 53%.
6. Ensure that the unit of specific gravity is included in the data table.
7. Rewrite and expand the discussion section to compare the results of this study in greater detail.