

Review of: "Aquaponics Unveiled: Efficient Household Farming"

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Potential competing interests: No potential competing interests to declare.

Comments:

The paper deals with "*Aquaponics Unveiled: Efficient Household Farming*". The paper is interesting and relevant to the journal themes. Despite the admired concept and potential of the research, the study representation, technical skills, and grammar quality need to be improved. Vital aspects, the flow of thought, and the presentation that would foster the study quality are lacking.

For better identification, the authors need to mark any color in the revised part of the manuscript and line number in response to the reviewer's comment file.

Hence, before acceptance/publication, the authors should address the following comments adequately:

1. The abstract section is well organized; however, the authors need to mention the methods and main results of the proposed work
2. The introduction section is too short and lacks appropriate references that introduce other analyses of aquaponics systems for household farming.
3. Authors should explain the choice of the technique in the introduction section.
4. The literature review should be further strengthened to highlight the scientific novelty of this work. The authors need to cite the following publications:

- <https://doi.org/10.1016/j.suscom.2023.100915>
- <https://link.springer.com/article/10.1007/s10098-022-02337-7>
- <https://www.nature.com/articles/s41598-023-43919-9>
- <https://doi.org/10.3390/su151914555>

1. The major contribution of the proposed work should be clear in the last paragraph of the introduction section.
2. The methodology section needs to be elaborated scientifically and needs to write experimental/simulation work.
3. A complete block diagram should be included in the manuscript.
4. Figure 6 need to be drawn or take copyright permission from the publisher to avoid copyright issue.
5. The example illustration is good, but the experimental results should be validated with other relevant studies in the discussion section.

6. Which types of fish are suitable for the proposed study? Advantages need to be included.
7. The conclusions can be included or rewritten properly with advantages, values of the proposed methods, and results.
8. Current related publication references and citations should be included in the paper.