

REVIEWER'S REPORT

Manuscript No: IJAR-54471

Title: Liquid fertilizer from nest refuse of leaf-cutter ant nests (*Atta* sp.) in lettuce seedling Production.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality	•			
Techn. Quality		•		
Clarity	•			
Significance		•		

Reviewer Name: Adetomiwa Emmanuel Adesokan

Detailed Reviewer's Report

The novelty of the manuscript is an evaluation of the potential use of nest refuse of the leaf-cutter ant *Atta opaciceps* as a biofertilizer in the production of lettuce seedlings. It is a new subject that is topical to sustainable agriculture, especially in the context of biofertilizers alternatives in the form of organic and low-cost.

Strengths

1. The study deals with a bioresource that has not been adequately researched, with the emphasis on an ecologically viable approach to the nutrition of plants.
2. The design of the experiment is explicit and replicable, and the materials and methods are sufficiently described, as well as the statistical analyses.
3. The results are provided with the necessary statistical support, as well as tables and figures which clearly convey the findings.
4. The data is logically interpreted and linked to the previous studies in the discussion creating a good connection with the existing literature.

Weaknesses

1. Although it is written well, the introduction can be improved to highlight a bigger picture of how
2. It needs minor changes in language and grammar that enhance the flow and readability (e.g., a consistent use of tenses and the position of the article).
3. Reference list should be checked against some references (e.g., Santos et al., 2018) to ensure that the citation style is correct and that the reference is consistent with it.

Suggestions for Improvement

1. Include a brief paragraph on the potential limitations of scaling up the use of ant nest refuse as fertilizer (e.g., availability, microbial safety).
2. It is a good idea to consider nutrient composition comparisons between other more common biofertilizers.
3. Add future research directions, such as testing different concentrations or crop species.
4. Revise minor typographical and formatting issues before final submission.

In general, the manuscript is valuable in terms of data to the research of organic fertilization and shows a high level of scientific. It will be publishable with slight amendments on clarity and formatting as well as the depth of the context.