

# Review of: "Effect of daylight and air oxygen on nanozymatic activity of unmodified silver nanoparticles: Shelf-stability"

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**Potential competing interests:** No potential competing interests to declare.

In the manuscript, the authors reported an approach toward Effect of daylight and air oxygen on nanozymatic activity of unmodified silver nanoparticles: Shelf-stability'. Generally current work is well carried out but the authors should try to emphasize better the importance of current manuscript in order to attract the readership of this journal. Besides, the publication of the work in this journal can be justified after the authors consider the following major points.

## Comments:

1. The authors should try to give more TEM and EELS images.
  2. The authors should try to give the synthesis mechanism in detail.
  3. The authors should try to give details about the procedure of the particles.
  4. The authors should explain the importance of the work in detail in order to attract the readership of this journal.
  5. The authors should highlight Hypothesis, Experiments and Findings (some of the numerical values) . The preferred format for the Abstract should be used in order to attract the readership of this journal. - An abstract is often presented separately from the article, so it must be able to stand alone. Hence the problem statement, aim, novelty and results of the study, all should be included in the one paragraph of the abstract.
- Please try to merge all information into a paragraph with some attractive and new findings.
  - Kindly provide more significant data which emphasize the importance of the work.
  - The main objective of the work is not clearly stated in the abstract. Please make it clear.

## Introduction:

- The introduction should be covered the gap of the research. However, it is not well covered in this section.

- Also, please mention the importance of this study to society as well as industry.
- Kindly refer to some latest papers as it is highly relevant to this report.
- Revised Introduction section based on the structure below:

1st paragraph: Problem statement

2nd paragraph: Current ongoing solution

3rd paragraph: Proposed solution in this work.

4th paragraph: Summarized the current research novelty and objective of this work.

- The problem statement of your introduction is not strong, need to discuss more it.

Material and Method:

- Well written overall. However, please provide more details of the experimental conditions.
- Suggest providing an additional figure to illustrate the process of the whole methodology.

Results and discussion:

- Kindly improve on the discussion. What is the significance of the results of the work?
- Please standardise the presentation of manuscript.
- Suggest using grammar check software to minimise the grammar mistakes.
- The visualisation of some figures is low. Please increase the contrast or brightness for a clearer picture.
- Enhance the quality of the figures.

Conclusions

- Good but please include the limitations and what can be done for future studies.
- Kindly improve to be more concise with significant results. Do not repeat the same in introduction/abstract.

References

- Kindly revise the reference format according to the author's guidelines.
- It is suggested to cite references within 5 years of research to maintain the reliability of results obtained.

6. The authors should try to give a comparison of method with literature.

7. The resolution of the figures/tables should be improved.
8. The introduction part is too casual. The authors should try to give some works in literature such as 'Materials Chemistry and Physics 250, 123037; Applied Organometallic Chemistry, e6272; Journal of Food Measurement and Characterization 15 (4), 3720-3730; Industrial & Engineering Chemistry Research 62 (11), 4655-4664; Food and Chemical Toxicology 169, 113406
10. The authors should give an explanation about the reusability and durability of the prepared particles and compare their results with other reported materials in terms of reusability and durability performances.
11. The authors should try to explain the mechanism for the enhanced performance by using the prepared particles in order to attract the readership of this journal.
12. Manuscripts published in this journal must explain the significant advances provided in approaches and understanding compared to previous literature, and/or demonstrate convincingly potential in new applications. The Conclusions of your paper are especially important for this. Therefore, please try to sharpen this further. The optimal Conclusion should include:
  - \* A summary of your findings.
  - \* A synopsis of your new concepts and innovations.
  - \* A brief restatement of your hypotheses.
  - \* Your vision for future work.
13. Language needs substantial improvement.
14. There are many typos and grammatical issues.