

# 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.

Very interesting article.

I would recommend the following:

The methodology used to determine the NPs'  $\mu\text{M}$  concentration should be described.

Stability Assays were not included in the Experimental Section

Please check the wrong enumeration of figures

The caption for Figure 3 (page 5) must be corrected: a) The figure shows some absorption spectra but the caption refers to a nanozymatic assay, a better description should be included; b) check the redaction of the phrase: HP is represented to hydrogen peroxide; c) it would be recommendable to include a control spectrum (no NPs); d) the y-axis must be labeled as Absorbance or just A, and units should be added (AU?).

NPs concentration in graphs from Figures 3 (page 6) and 4 (page 7) should be stated. Also, a brief mention of the experimental conditions in the caption for both graphs would be desirable.

The caption for Figure 5 (page 8) does not correspond to the graph, it should be modified to make it clearer and a better explanation should be given. Half-lives are not provided.

The results section must be reassessed: it's not clear if the ambient temp was tested with and without air oxygen exposition. The evaluation of the 3 conditions at room temperature would be recommended: light control only, air oxygen exposition only, and the combination of both variables

In the discussion of the results, a possible explanation could be suggested as to why experimental conditions affect catalytic activity.