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 this submitted manuscript, the author described a so-called “unmodified” silver nanoparticles system for their peroxidase-like activity evaluation. The reviewer has some concerning points for this manuscript:

(i) This author claimed that they used an unmodified sliver nanoparticles for this study. However, in the silver nanoparticles preparation procedure, sodium citrate and $NaBH_4$ were used for surface ligand and reduction reagent, respectively. This means that the surface of the as-prepared sliver nanoparticles was capped by citrate rather than unmodified. The author should clarify this point in the revised manuscript.

(ii) In general, the peroxidase-like activity of a mimic system is evaluated by using Michaelis-Menten equation. In this manuscript, they did not use Michaelis-Menten equation procedure. This reviewer seriously concerns that how did they measure this activity? For this “The specific activity of nanozymes (μM sec -1) was then calculated using the absorbance coefficient of the oxidation product at 658 nm (ε=39000)”, what does this mean? Please give detailed calculation.

(iii) the language should be substantially revised, best to find a help from a English native speaker.