

Review of: "Determining kinetics parameters of bovine serum albumin-protected gold nanozymes toward different substrates"

Maxim Kiryukhin¹

¹ Agency for Science, Technology and Research (A*STAR)

Potential competing interests: No potential competing interests to declare.

The paper by Hormozi Jangi does not meet the standards of a scientific publication. The problem statement is missing which makes it impossible to evaluate the importance of the work. Nanozymes are not new and it is not clear how does the paper contribute to this field. The reference list is full of self-citations, which is not good. It make an impression that the author is pioneer in enzymes immobilization, metal-organic frameworks, carbon nanodots, etc. I am not even sure BSA-stabilized gold nanoparticles may be classified as nanozymes. The surface of typical nanozymes tends to mimic active center of an enzyme, e.g. M–N₄ porphyrin active centers of natural heme-containing enzymes, like peroxidase. The surface structure of Au nanoparticles with adsorbed BSA is not discussed and it is not clear whether it may mimic any enzyme. Experimental data are presented without any statistical analysis, it is an impression there was single measurement done per data point raising questions on reproducibility.