Review of: "Nanomaterials: History, Production, Properties, Applications, and Toxicities"

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Potential competing interests: No potential competing interests to declare.

The authors present information about “Nanomaterials: History, Production, Properties, Applications, and Toxicities.” The authors should check the English language in the manuscript.

The manuscript "Nanomaterials: History, Production, Properties, Applications, and Toxicities" provided a thorough introduction to nanomaterials, outlining their historical evolution and photocatalysis, sensors, and nanomedicine. The article not only gives a good overview of nanomaterials; it should be rejected because it doesn't go into enough detail about current safety research and possible toxicities. Therefore, my suggestion is that the manuscript can’t be accepted. The comments are shown as follows:

Comment (1): The font and size of all letters and numbers in this work, as well as the format of figures, tables, equations, and references, should be carefully modified according to the Journal Guide for Authors. In addition, the authors should carefully check and revise the grammar and punctuation.

Comment (2): Do the findings represent a novel and substantial contribution to the nanomaterials production and properties fields?

Comment (3): In the introduction section, advantages and uses of semiconducting metal oxide nanostructures for pollutant removal and environmental sensing were not described.

Comment (4): This article does not justify the importance of these nanostructures in addressing environmental challenges?

Comment (5): This article does not well explain catalytic and photocatalytic processes and their relevance to environmental sustainability?