

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

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

This paper is of significant importance as it primarily focuses on introducing nanomaterials and listing their related applications. It also highlights the need for further revisions to enhance the quality of the paper, considering the following crucial issues.

1. Regarding the definition of NPs and NMs, it is recommended that the authors elaborate more on their advantages and important properties as indicators for enhancing their development revolutions. The current way of expression is undoubtedly inefficient and unable to provide readers with effective information.
2. There are various methods and techniques for producing NPs and NMs. I suggest conducting a more thorough literature review on these technical methods and summarising the synthesis method and its applications in a table. Otherwise, it is not possible to provide readers with a comprehensive understanding of each NM and its potential applications. These tabulated methods and applications are essential for improving the quality of the article.
3. The manuscript's title suggests a focus on NMs' toxicity, which is a critical aspect to be addressed. However, the authors have not delved into how these NMs' toxicity affects humans and the implications of exposure. It is crucial to include these discussions with relevant health information to provide a comprehensive understanding.
4. Introduction to the dangerousness of the effect of certain NMs is undoubtedly a critical issue that needs to be studied. In fact, this is crucial to educating the reader on how to manage and handle related NP and NM products. Therefore, the authors should provide relevant recommendations for handling the NPs and NMs in the conclusion section of the revised manuscript.