

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

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Potential competing interests: No potential competing interests to declare.

In this study, the authors summarize the perspectives on developments in the field of metal oxide nanostructure research and highlight the effects of nanotechnology on the environment. This study looks interesting for the scientific community. However, before final acceptance of this paper, I will suggest a major revision of the paper,

1. There are several language problems that need to be rectified after careful revision.
2. Abstract should be rewritten with significance of this study.
3. It is recommended that this study gives some space for the industrial application of metal oxide nanostructures and nanomaterials.
4. It is better for the authors to dedicate a section to the relationship between the size of nanoparticles and the passage through body organs.
5. The manuscript is too long and contains some redundant information that can be omitted or summarized.
6. In order to increase the strength of the manuscript, the following references could be added in the appropriate places. The relevant points must be included in the manuscript.

Materials Research Bulletin, Volume 137, 2021, doi: 10.1016/j.materresbull.2020.111203.

Journal of Solid State Chemistry, Volume 331, 2024, doi: 10.1016/j.jssc.2023.124503.

Polymer Bulletin, Volume 77, 2019, doi: 10.1007/s00289-019-02835-7.

Chemical Technology and Biotechnology, volume 97, 2022, [10.1002/jctb.7151](https://doi.org/10.1002/jctb.7151).