

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

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Potential competing interests: No potential competing interests to declare.

The manuscript presents valuable insights into the field of nanotechnology, particularly focusing on the various aspects and applications of nanomaterials and nanoparticles. The compilation of information is thorough, and the discussions presented have the potential to contribute significantly to the field. Therefore, I recommend the publication of this manuscript after addressing the following points.

Points for Revision

Page 2 - The sentence "Scientists have been researching the new nanotechnology developed by Feynman" must be revised. In fact, nanotechnology is still in development. Feynman merely coined the term.

Page 3 - The "main uses" in the table should include the year of first publication, in the same way as presented for other entries in the table.

Page 8 - The sentence "Both metals and non-metals have a wide band gap and diverse properties depending on how they are manipulated" is problematic. What does 'band gap' mean for metals? Metals exhibit very different behavior compared to semiconductors. The concept of a band gap is not typically applicable to metals. Please revise and improve the description.

Sections 4 and 5 present better discussions, with potential contributions compared with the literature. The manuscript predominantly has a compilation character with brief descriptions of nanomaterials and nanoparticles, but in sections 4 and 5, the authors' opinions are presented.

To increase the impact of this manuscript, I suggest including at least one paragraph of in-depth discussion/opinion in each section. This would elevate the manuscript to a superior level.

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