

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

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Potential competing interests: No potential competing interests to declare.

Manuscript titled "Nanomaterials: History, Production, Properties, Applications, and Toxicities" is a comprehensive effort and deals with the historical background, synthetic and application domains of different nanomaterials. A number of articles have been recently published which review the outlines of this article. Following are my concerns which may be addressed for improvement/publication of this article:

1. Kindly read these reviews for more focus on this article: a) DOI: 10.1021/acs.chemrev.3c00229, b) DOI: 10.1021/acs.chemrev.3c00459, c) DOI: 10.1021/acs.chemrev.3c00252...My point is that the topic of this article covers the magnitude of a book. A huge amount of work has been done on nanomaterials. The topic of the article should be concise enough to incorporate maximum data.
2. Figure 1 has some bullets which mention no text? Kindly address.
3. Applications such as water splitting (International Journal of Hydrogen Energy 43.10 (2018): 4804-4817.), thermoelectric (Materials Design and Applications, Springer Series in Materials Science 182 (2013): 1-382.), superconductivity, semiconducting properties (Coordination Chemistry Reviews 253.23-24 (2009): 3015-3041.) , dye and pollutant degradation (**DOI:**<https://doi.org/10.1039/9781839169427-00171>) etc., have not been mentioned.
4. Add more figures/data and cover the applications in tables (may be).
5. Future horizons are missing; kindly incorporate.