

Review of: "Synthesis, Characterization and Ameliorative Effect of Iron Oxide Nanoparticles on Saline-Stressed Zea Mays"

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Potential competing interests: No potential competing interests to declare.

The paper can be reconsidered for publication after the items below. Please note that all items should be modified precisely.

1. For readers to quickly grasp your contribution, it would be better to highlight major difficulties, challenges, and your original achievements to overcome them in a clearer way in the abstract and introduction.
2. FTIR analysis can be given in tabular form. UV-Vis analysis needs to be explained under a separate heading. How is the average particle diameter size (D), and the average distance between planes of the FeONPs atoms (d-spacing), determined?
3. In the statistical analysis section, please specify the software used for the analysis. The p-value should be in italics and capital letters everywhere.
4. Keywords: Some keywords are meaningless; they repeat the title.
5. More explanation is needed for where the research gap is and what the goals of the research are. The research gap and the research goals are not explained in detail, leading to the reader missing the significance of the research.
6. Some lines seem very ordinary: Chemical methods involve the use of chemical agents.
7. The introduction section is detailed but needs a significant amount of reorganization. It could be strengthened by adding more recent references, as a few important lines are missing out on references, making the data weak.
8. The research contributions of the paper should be articulated more clearly. The abstract is not representative of the content and contributions of the paper. The abstract does not seem to properly convey the rigour of research.
9. To increase the quality of literature, recently published papers related to this paper, you could consider other papers such as:
 - Journal of Applied and Natural Science, (2021), 13(3), 1102 - 1110. <https://doi.org/10.31018/jans.v13i3.2894>
 - Bulletin of Pure and Applied Sciences-Zoology, (2022), 41A (1), 1-13.
 - Intern. J. Zool. Invest. (2022), 8(1): 568-577. <https://doi.org/10.33745/ijzi.2022.v08i01.063>.
 - J.Env.Bio-Sci., (2022), Vol.36 (1), 1-10.
 - *Environmental Research*, 229 (2023) 116025 <https://doi.org/10.1016/j.envres.2023.116025>.
 - Nanotechnology: boon or ban to environment, Emerging Trends in Environmental Science. 34-37. ISBN: 978-81-942-503-7-1.

- Effects of Biochar and Fly ash on *Eisenia Fetida* in Soil Contaminated with Chlorpyrifos, Revisiting the Sustainable Goals in Applied Zoology. 81-94. ISBN: 978-93-56511-97-2.

In conclusion, I hope that they find my comments constructive and I am eagerly looking forward to re-review their carefully revised and improved version.