

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.

I have tried to read the manuscript entitled "Synthesis, Characterization and Ameliorative Effect of Iron Oxide Nanoparticles on Saline-Stressed Zea Mays". The research work is very interesting but needs detailed amendments. The following critical points should be addressed.

1. The abstract section needs modification, such as the method (concentration and composition volume ratio of plant extract with the precursor salt).
2. A number of previous works have been conducted in the same area, even using binary NCs. So, what is the novelty of the work? What makes your current report unique as compared to the previously reported work?
3. How do you know the composition of *Diodella sarmentosa* crude extracts (0.1 g) and 0.02 M (1.08 g) precursor salt? How do you confirm the activity and the properties when the composition of the extract and the salt is altered? Since the amount of the extract and salt varies, the properties as well as the activities also change. Therefore, I strongly recommend the authors to synthesize FeONPs in at least three compositions.
4. Not ml, say mL.
5. The activity of both the extract and FeONPs should be done. This can be used to verify whether the synthesized NPs should have enhanced activity as compared to the extract. If the activity of the extract is more enhanced, then why do you want to synthesize the NPs?
6. Where are the FTIR spectra of both the extract and the NPs? Only the discussion section is presented in the main part of the manuscript.