

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.

Authors have studied the effect of iron nanoparticles on follicular application to ameliorate salinity stress. However, the paper has several weaknesses.

1. There are some leftover leaf extracts in the nanoparticles, even after centrifugation. Hence, is the beneficial effect due to leftover leaf extracts or due to nanoparticles? This is not clear. The salinity stress may be reduced due to plant extracts in the nanoparticles.
2. Wrong citation, e.g., Marial et al., 2022, should be Gracheva et al., 2022.
3. The authors have not included foliar irrigation for A and B on the leaves, which is a critical mistake. The effect of the reduction of salinity stress could be due to the foliar water provided along with the nanoparticles. An equal weight of 5 ml of foliar water should have been provided to A and B, which was not done.

Hence, the methodology is misleading, and I suggest rejection.