

Review of: "Synthesis of Nickel Nanoparticles Using Ionic Liquid-Based Extract from *Amaranthus viridis* and Their Antibacterial Activity"

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Potential competing interests: No potential competing interests to declare.

Dear Editor,

Here are some points that should be revised/corrected:

1. It is suggested that the whole abstract should briefly include a little more about the research problem and the study's findings that reflect your work's novelty
2. The introduction section can be further enhanced. This section must include some background on the topic, a review of the relevant studies, motivation, the study's need, and the importance of the current investigation
3. "*Amaranthus viridis*" is the name of a plant species and should be written in italics.
4. The study should be discussed both structurally and biologically, supported by the literature suggested below. The results presented simply are insufficient to explain the focus of the study.

- Baran, A., Ertaş, E., Baran, M. F., Eftekhari, A., Gunes, Z., Keskin, C., ... & Khalilov, R. (2024). Green-Synthesized Characterization, Antioxidant and Antibacterial Applications of CtAC/MNPs-Ag Nanocomposites. *Pharmaceuticals*, 17(6), 772.

- Tural, B., Ertaş, E., Batıbay, H., & Tural, S. (2024). Comparative Study on Silver Nanoparticle Synthesis Using Male and Female Pistacia Khinjuk Leaf Extracts: Enhanced Efficacy of Female Leaf Extracts. *ChemistrySelect*, 9(30), e202402117.

- Erdoğan, Ö., Paşa, S., Demirbolat, G. M., & Çevik, Ö. (2021). Green biosynthesis, characterization, and cytotoxic effect of magnetic iron nanoparticles using Brassica Oleracea var capitata sub var rubra (red cabbage) aqueous peel extract. *Turkish Journal of Chemistry*, 45(4), 1086-1096.

- Erdogan, O., Abbak, M., Demirbolat, G. M., Birtekocak, F., Aksel, M., Pasa, S., & Cevik, O. (2019). Green synthesis of silver nanoparticles via Cynara scolymus leaf extracts: The characterization, anticancer potential with photodynamic therapy in MCF7 cells. *PloS one*, 14(6), e0216496.

- Erdoğan, Ö., Paşa, S., Demirbolat, G. M., Birtekocak, F., Abbak, M., & Çevik, Ö. (2023). Synthesis, characterization, and anticarcinogenic potential of green-synthesized zinc oxide nanoparticles via Citrus aurantium aqueous peel extract. *Inorganic and Nano-Metal Chemistry*, 1-9.

- Erdoğan, Ö., Paşa, S., & Cevik, O. (2021). Green synthesis and characterization of anticancer-affected silver nanoparticles with silverberry (*Elaeagnus angustifolia*) fruit aqueous extract. *International Journal of Pure and Applied Sciences*, 7(3), 391-400.

1. The conclusion section must be rewritten to be more informative and unveil the most beneficial outcomes.