

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.

In this form, the manuscript presented does not contribute any significant information to the state of knowledge. Corrections are necessary.

Please indicate the research hypothesis that the authors have put forward.

Item 3.1 does not present the results of the UV-Vis analysis. Only the figure and the title suggest this. This section describes the methodology of microbiological testing.

Figure 2 requires appropriate development and marking of the appropriate bands.

How did the authors obtain the particle size range from 15 to 23 nm using the appropriate formula and XRD analysis results?

Figure 3 requires appropriate development.

The TG analysis results require much better presentation and development.

Figure 5 – where in the Ag material?

Item 3.6 – The authors write that the zeta potential of nanoparticles is -41 mV. The results presented in Figure 6 do not confirm this.

The conclusions require reformulation. In this form, they are only a summary.