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

Panna Das[1]

1 Department of Botany, Tripura University, India

Potential competing interests: No potential competing interests to declare.

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

The manuscript comprises significant information, and few suggestions are as follows:

In the introduction, the second paragraph, “Three advantages of microwaves are the mechanical function, ... the extraction process leads to a rather high extraction efficiency.”

Any reference you would like to place?

In the introduction, the third paragraph - Check the scientific name and any reference you would like to place for the plant description.

In the introduction, the fourth paragraph - Elaborate on the sentences.

In the Experimental section under Material, “The plant material,*Amaranthus viridus*, ... market.”

Write the location and region of the country.

The method of anti-bacterial activity - Rewrite the method again. Mention the disks or strips impregnated with antimicrobials and also mention the use of standard antibiotics.

Result and discussions

UV-Vis analysis of Ni NPs

Error in the placement of the paragraph. Check it properly, as the sub-heading does not match with the content. What is the peak of the spectra of UV-Vis analysis? Try to add a few discussions.

X-ray diffraction analysis (XRD) - Try to add a few more discussions.

Thermogravimetric analysis (TGA) - The remaining mass doesn't change beyond 530°C[13]. Check the degree symbol.

Field emission scanning electron microscopy (FESEM) - TEM could have given more clarity.

Anti-bacterial activity - The zones are not clear. Give a clear picture. The zones should be distinct.