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

Yilkal Dessie[1]

1 Adama Science and Technology University, Ethiopia

Potential competing interests: No potential competing interests to declare.

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

In general, this is solid work that generated some interesting and reliable results. The author focused on the Synthesis of Nickel Nanoparticles Using Ionic Liquid-Based Extract from Amaranthus viridis for antibacterial activities. However, the report of this work has some significant drawbacks, and some claims are even misleading. I suggest accepting this work after major corrections based on some suggestions, as shown below:

1. Given the topic and scope of the paper, it should be revised to include the mentioned papers; https://doi.org/10.3389/fnano.2022.876014; https://doi.org/10.5185/amlett.2019.2279; https://doi.org/10.11648/j.ajpc.20160506.14; https://doi.org/10.11648/j.ijpp.20180201.12 should be highlighted in the introduction and even in the discussion part to broaden the readership.
2. Please carefully check the sentences again. I strongly encourage the authors to ask a native English speaker to brush up the English.
3. What can you say about the novelty of this work?
4. Why did you use **Nickel Nanoparticles for Antibacterial Activity other than Nickel Oxide Nanoparticles**?
5. The wave number in the FTIR graph shown in Figure 2 must be included for each peak.
6. Card number 04-0835 in the JCPDS dataset graph must be included in Figure 3.
7. Have you done the **Antibacterial Activity of the extract**? And compared it with Ni NPs?
8. What is your future recommendation?