

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

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In this research article entitled "**Synthesis of Nickel Nanoparticles Using Ionic Liquid-Based Extract from *Amaranthus viridis* and Their Antibacterial Activity**", the authors utilized plant extract for a green synthesis method to create Ni-nanoparticles. The Ni-nanoparticles have been characterized using X-ray diffraction, FTIR spectroscopy, thermogravimetric analysis (TGA), and dynamic light scattering. Then, 3 distinct bacteria were subjected to assess the antibacterial potential.

Hereafter, some points that should be taken into account before processing further.

Comments to the authors:

1. The abstract does not report any antibacterial activity of the synthesized Ni-nanoparticles. Re-write it and correct accordingly.
2. The sentence "Research on nanoparticles is still ... among other things." can be supported with these relevant and recent references: Doi: 10.3390/antibiotics11070853 and Doi: 10.1007/s12602-023-10201-3.
3. It is highly recommended to add the limitations of the study. This would add additional value to the manuscript.
4. Check the spaces between the words, especially in the illustrations' annotations such as "2Theta(Degree)" and "Temperature(C°)" in figures 3 and 4, respectively.

Minor comments:

1. The English language is fine, but small editing and checking are required. For instance, "Temprature" should be "Temperature," and "(C°)" should be "(°C)"...
2. Use italics throughout the manuscript to write the bacteria species such as: *Aeromonas hydrophilia*, *Staphylococcus aureus*, and *Escherichia coli*

