

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.

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

The work is interesting and has scope in the nanotechnology area. The synthesis of nanoparticles using plant extract is good and can be considered a green approach.

However, the authors need to highlight the importance of using ionic liquid in the manuscript.

Specific comments to authors:

1. Need to signify the importance of using ionic liquid in the synthesis of Ni nanoparticles in the results and discussion.
2. Need to discuss the importance of ionic liquids in nanoparticle synthesis in the introduction section.
3. Normal thermal heating-assisted synthesis of Ni nanoparticles using plant materials is reported. Explain the importance of using microwave irradiation.
4. Give the UV and IR of the Ni precursors used in the synthesis.
5. Check the antibacterial activity of Ni precursors, ionic liquid, and plant extract and discuss the same in the manuscript.

The manuscript can be published after incorporation of the suggested revisions.