

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.

- i) An image of *Amaranthus Viridus* can be added.
- ii) 2.2. Synthesis of nickel nanoparticle: No annealing temperature/process information.
- iii) 3.1. UV-Vis analysis of Ni NPs does not describe the absorption studies. Copy-paste error!
- iv) In FTIR, vibrations related to secondary amine in the regions 2300-2400 are missing. Usually, FTIR will be recorded from 4000 to 400 cm⁻¹. Kindly change it.
- v) 3.3. X-ray diffraction analysis (XRD): If cubic crystalline is claimed, why not go for crystal XRD?
- vi) 3.5. Field emission scanning electron microscopy (FESEM): Ni peaks in the EDX spectrum showed that there is no Ni. Instead, Ag (Silver) is there. How/Why?
- vii) 3.6. Zeta size and zeta potential: No proof regarding the size of 23.5 nm (as the author claimed). The graph is not for Ni; it may be for Ag.
- viii) 3.7. Anti-bacterial activity: The zone of inhibition is deficient, so 16 mm is unbelievable.
- ix) References: A few more references can be added.