

# 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.

- 1- The abstract only states the experimental or calculated process of this work. The authors should be given specific results to demonstrate the research significance.
- 2- The introduction can be improved by providing a more critical discussion of recent related literature. Discuss the shortcomings of previous work and the gaps, and how this work intends to fill those gaps. The authors should determine the novelty of the current research in the last paragraph of the introduction.
- 3- Lack of coherence, especially in the paragraph introducing the *Amaranthus viridis* plant used in this study.
- 4- Some parameters need to be defined just after appearing in the text.
- 5- # Materials and Methods: Authors should list all the reagents used, including their purity, supplier, etc.
- 6- In FTIR, more bands are not identified or discussed in the text.
- 7- The authors have not supported their findings by any research studies. Furthermore, the discussion part must be significantly improved.
- 8- The authors should propose the interactive relation between the bio-components and Ni NPs that give the studied properties and applications.
- 9- The authors should confirm the exact type and quantity of bio-components that are still attached to the Ni NPs surface, because such compounds could not be detected by FESEM.
- 10- Authors should determine the structure of Ni NPs according to XRD results.
- 11- # Conclusions: This section is too general; please add some information about the value of the obtained parameters of the tested series as well as information about the novelty of the proposed technology.

