

# 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.

Dear Editor,

The work presented by Ullah et al. may be of interest to readers of Qeios, but it is necessary to perform a series of comments before being accepted for publication.

Best Regards,

Fatma Tomul

Comments to author:

- The abstract is concise and accurately summarizes the essential information. The abstract should briefly state the purpose of the research, the principal results, and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone.
- The introduction must be developed, and you must add studies already done in this field.
- Is the ionic liquid mentioned in the article 1-ethyl-3-methyl imidazolium chloride [QMIM]Cl?
- The manuscript should provide a more detailed explanation of the choice of specific conditions for extract preparation (e.g., why 60 °C for 20 minutes at 40 watts?). Likewise, the reason for the conditions chosen to prepare the nickel particles should be explained.
- Catalog numbers of the bacteria selected for bacteriological analysis should also be stated.
- Section 3.1. Although the title is the UV-vis spectrum of the nickel nanoparticles prepared in the laboratory, antibacterial activity is mentioned in the content. From where?
- Add more discussion in the results and discussion section.
- In the results and discussion section, more citations are needed.

