

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.

Paraphrasing significantly reduced the scientific quality of the research presentation

Below are just a few of the comments.

Abstract

The information provided is not sufficient. The abstract lacks an adequate summary of antimicrobial methods, results, and conclusion.

Keywords

Amaranthus viridus is missing.

bacterial activity or antibacterial activity?

Introduction

The introduction lacks both grammatical and scientific expression that could provide clarity and persuasion for intended readers.

Methods

The methods were inadequately reported.

Aqueous ionic liquid solution? Provide the name.

Results

UV Analysis

Contrasting information was provided.

FT-IR Analysis

OH at 3417 cm⁻¹. (The reported peak is for Amine, not OH.)

Field emission scanning electron microscopy (FESEM)

Ni peaks in the EDX spectrum showed that the Ni phase was present and there were no additional impurities. (The spectral peaks showed the presence of Ag and Cl. Kindly justify this).

Anti-bacterial activity

The figure does not align with the reported zones of inhibition. Also, no comparison was carried out with standard antibiotics.