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.

Comment:1 The abstract lacks proper structure and flow, making it difficult to follow. The methodology, results, and conclusions are not clearly separated, leading to confusion about the main findings of the study. A well-organized abstract should have distinct sections summarizing the key points, such as the aim of the study, methods, results, and conclusion.

Comment:2: The abstract does not present any quantitative data, such as particle size, zeta potential, or the effectiveness of the antibacterial activity. Without specific numerical outcomes or comparisons, it is difficult to assess the significance of the study's findings. Including relevant data would enhance the clarity and impact of the research.

Comment:3: The abstract mentions that antibacterial activity was conducted on three distinct bacteria but does not provide any information on the results or the effectiveness of the nickel nanoparticles. This lack of detail undermines the importance of the antibacterial aspect of the study, which is supposed to be a key focus.

Comment:4 The use of a plant extract from *Amaranthus viridus* and ionic liquids for the green synthesis of nickel nanoparticles is an interesting and eco-friendly approach. This novel method has potential advantages in sustainability and reducing environmental impact, which makes it a valuable contribution to the field of nanomaterial synthesis.