# Review of: "Synthesis of Nickel Nanoparticles Using Ionic Liquid-Based Extract from Amaranthus viridis and Their Antibacterial Activity"

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This paper reports the production of nickel nanoparticles using ionic liquids and microwave heating. There are many papers in this area that follow this format. I struggled to find any novelty.

The introduction requires considerable rewriting to stimulate excitement and novelty.

The experimental section requires significant improvement. What is the UV showing, and where specifically is the nickel SPR band? The IR interpretation is weak and flawed, with random assignments. There is no way that you can pick out the C-N bands without additional supporting information. Why are you showing the TGA from 100 and not 25oC? In which case, you probably have 15% moisture loss. You need to analyse the resultant residue at 800oC for evidence of nickel.

What is the toxicity of the ionic liquid itself?

This manuscript requires significant improvement in scientific quality.