

**Green Synthesis, Characterization and Application of zinc  
oxide nanoparticle**

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## **Abstract:**

In this work, we report the synthesis of ZnO nanoparticles using Moringa Oleifera (Drumstick) leaves as natural precursor via precipitation method. The formation and characterization of ZnO nanoparticles was established by UV-VIS spectroscopy Fourier transform infrared spectroscopy and Particle Analyzer. The absorbance at 361nm proves the formation of ZnO. The IR spectra results proved the capping and stabilizing agents. The size of the particle was found to be 246.7 nm. Further the ZnO was used as a nutrient in improvement of plant growth.

**Keywords :** zinc oxide, Nano particles, green synthesis, plant treatment.