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Green synthesis of zinc oxide nanoparticles using jasmine petals

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Abstract:

The green chemistry approach for the preparation of nanoparticles is becoming more attractive as it is efficient and environmentally friendly. Zinc Oxide nanoparticles (ZnO NPs) are the second most common metal oxide, it's considered an important compound due to its properties, stability, low cost and wide usage. ZnO NPs have been synthesized based on using extract of the petals of *Jasminum officinale*. The synthesized NPs were characterized by X-ray diffraction (XRD), and they showed a distribution size with in an average of 5.05nm and a hexagonal shape, Result, showed that jasmine petal extract is an excellent choice for the green production of ZnO nanoparticles.

Keywords:

Nanoparticles, Jasmin, Zinc Oxide, Green Synthesis.