



## Eco-friendly synthesis of ZnONPs using *Ocimum tenuiflorum* leaf extract and its characterization

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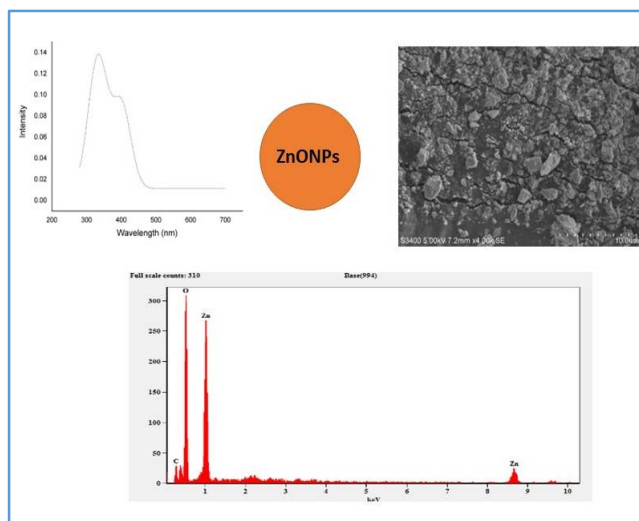
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Accepted on 28<sup>th</sup> August, 2022

### ABSTRACT

In this paper, an environmentally benign ZnONPs was prepared using *Ocimum tenuiflorum* leaf extract. Here we have used the leaves of *Ocimum tenuiflorum* plant. Green synthesis is an environmentally friendly method which reduces inert gases, toxic chemicals, radiations etc. when compared to other techniques of synthesis of nanoparticles. ZnO nanoparticles exhibit antibacterial, anti-corrosive, anti-fungal, and UV filtering properties. The prepared nanoparticles are characterized using X-ray diffraction (XRD), Scanning electron microscope (SEM), UV Absorption spectrum and emission spectrum. The average particle size is calculated to be in the range of 12-17 nm.

### Graphical Abstract:



**Keywords:** ZnO nanoparticles, *Ocimum tenuiflorum*, X-ray diffraction studies.