

# SYNTHESIS OF METALLIC NANOPARTICLES USING PLANT DERIVATIVES

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## ABSTRACT

Plants are the major sources of different types of phytochemicals with numerous biomedical applications. Nanotechnology is a rapidly growing field and plays an important role in most of the advanced science, medicine, and technology areas. This chapter summarizes the plant sources used for nanoparticle synthesis, characterization, and their applications. Plant parts such as leaves, fruits, seeds, stems, flowers, roots, barks, and fruit peels are involved in the synthesis of various types of nanoparticles. The low cost and high eco-friendly-natured plants are very advanced and beneficial to human applications. Nanoparticles such as Platinum from Platinum nitrate, zinc oxide from zinc nitrate and zinc acetate, copper sulfide and from Copper sulfate, etc. were synthesized with the help of different types of plants and their different parts are reported.

**Keywords:** Biometrics, Metal nanoparticles, and Plant extracts.

