

A
DISSERTATION THESIS
ENTITLED
**Green synthesis of silver nanoparticles using *Oroxylum indicum* aqueous
leaf extract**

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1. ABSTRACT

There is an increasing commercial demand for synthesis of various nanoparticles due to their vast development in various areas such as electronics, catalysis, chemistry and medicine. In the current period, the development of efficient green chemistry methods for the synthesis of metal nanoparticles has become a major focus for the researcher. The synthesis and characterization of nanoparticles using by using plant extracts is the emerging field of nanotechnology which has extensive new applications in various fields. In the present study, we describe the cost-effective and environmentally friendly technique for green synthesis of silver nanoparticles from 1mM AgNO₃. The reaction mixture turned brownish grey coloured for silver nanoparticles after 3 hrs of incubation period obtained nanoparticles were confirmed using UV-Visible Spectrophotometer. The main aim of this paper is to synthesise silver nanoparticles from aqueous leaf extract of *Oroxylum indicum*.