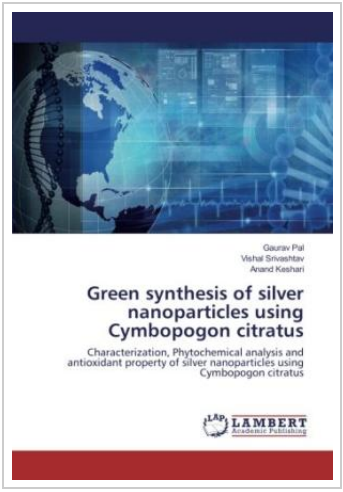

Green synthesis of silver nanoparticles using Cymbopogon citratus

By Pal, Gaurav / Srivashtav, Vishal

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Characterization, Phytochemical analysis and antioxidant property of silver nanoparticles using Cymbopogon citratus | The aim of this study was green synthesis of silver nanoparticles using leaf extract of Cymbopogon citratus. Silver nanoparticles (AgNPs), having a surface plasmon resonance (SPR) band centered at 406 nm, were synthesized by Cymbopogon citratus leaf extract capping as well as reducing agent with AgNO3 during a time dependent process at room temperature. A synthesized silver nanoparticle was characterized for their size and shape using scanning electron microscopy (SEM) and transmission electron microscopy (TEM). The total formation of the AgNPs was observed visually with a color change from pale yellow to brownish-black. Fourier transform infrared spectroscopy (FTIR) and energy dispersive x-ray spectroscopy (EDS/EDX) were conducted to determine the various functional groups and the concentration of metal ions in the nanoparticles. The data analysis showed spherically shaped nanoparticles with a size of 25-30 nm in diameter, as revealed by TEM, thereby complementing the result for SEM. | Format: Paperback | Language/Sprache: english | 68 pp.

Reviews

This publication is amazing. It is definitely basic but shocks in the fifty percent of your publication. You wont feel monotony at anytime of your own time (that's what catalogues are for concerning if you question me).

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This kind of book is every little thing and taught me to looking ahead of time and a lot more. I am quite late in start reading this one, but better then never. I found out this book from my dad and i encouraged this pdf to find out.

-- ***Justus Hettinger***