



Green synthesis of silver nanoparticles and its antibacterial effect

By Prema Paulpandian

LAP Lambert Academic Publishing Apr 2018, 2018. Taschenbuch. Condition: Neu. Neuware - Nowadays plant extract has been used as reducing and capping agent for the synthesis of nanoparticles which could be advantageous over photochemical reduction, heat evaporation, electrochemical reduction, and chemical reduction methods. In the present attempt mulberry leaves extract act as reducing agent as well as a stabilizing agent in green nanotechnology process. The synthesized silver nanoparticles were determined by the change of colloidal solution from white to brownish. UV-Vis absorption spectroscopy showed a maximum peak at 440 nm. Scanning electron microscope confirmed the spherical nature and the highly crystalline with an average size of 15 -25 nm. The nanoparticles exhibited enhanced antibacterial activity against human pathogens. 76 pp. Englisch.

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