

## Applications of Sulfur Nanoparticles: Synthesis and Characterizations

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**Abstract :** Sulfur nanoparticles were prepared by different methods with different sizes and shapes. When the sulfur is present as nanoparticles they have many practical applications in our life. This research discusses sulfur nanoparticles synthesis, characterizations and applications. With dandruff being a common everyday problem and the market is loaded with antidandruff shampoos and such skin care products, it is obvious to assume resourceful research into this area would be both objective to present scenario and potentially lucrative. Nanoparticles are frequently in use in some very powerful antimicrobial, antifungal cosmetics nowadays, especially silver. To check its antidandruff activity, experiments have been conducted on *Malassezia furfur* the causal organism for seborrheic dermatitis or dandruff, which have been cultured for such study in our lab.

**Keywords :** CTAB surfactant SEM, sulfur nanoparticles (S-NPs), XRD, polymeric surfactant

**Conference Title :** ICN 2015 : International Conference on Nanotechnology

**Conference Location :** Singapore, Singapore

**Conference Dates :** July 04-05, 2015