

## **Facile synthesis of Metal Oxide Nanoparticles for potential Biomedical and Industrial Application**

**Madiha Batool**

Government College University, Pakistan

The current investigation of nano technology in another field of science upshot in prosperous development. Molecular nanotechnology deals with the accurate atoms and molecules manipulation. Scientists are finding a variety of nanoscale materials to taking advantage of greater properties than large size counterparts. Nanotechnology has the capability to make applications cheaper, easy and functional. The object of study is to evaluate the efficiency of azo dyes removal, nano food packaging, wound healing, anti-cancer drug loading with application of metal oxide nanoparticles. The metal oxides biogenically fabricated for both applications were iron oxide, copper oxide, zinc oxide. The MO-NPs being effective adsorption of azo toxic dyes, antibacterial and antifungal agents are the utmost important in the outlook of industrial applications. Anti-cancer drugs loading, releasing, cytotoxicity, wound healing properties were analyzed as biomedical applications of MO-NPs. It is needed to farther evaluate the toxicity and field potential of biosynthesized MO-NPs.

### **Biography**

Miss Madiha Batool is Ph.D. student of chemistry department of GCU. She published five papers in reputed journals. A book is under publishing name nanotechnology trends. Her area of research is nanometal oxides applications in biomedical and industrial applications. she presented in four international conferences as oral and poster presentations.

[tweetchem56@gmail.com](mailto:tweetchem56@gmail.com)