



SEMINAR ANNOUNCEMENT

Ferrites nanoparticles: structure, modifications and nanotechnological applications

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In this presentation the speaker tries to clear for his respect colleges his field of research looking for a common area between his work and their ones for future collaboration. The main object is the ferrites magnetic nanoparticles which are attractive materials due to their wide use in electronic devices, such as transformers, recording heads, choke coils, noise filters, electromagnetic gadgets, data storage devices, etc. Many subjects will be mentioned in the presentation as:

Chemical, crystal and magnetic structure for spinel ferrites will be briefly discussed and the result of some recent publications on ferrites nanoparticles will be illustrated. The use of ferrites nanoparticles in magnetic targeting in drug delivery system and the hydrodynamic behavior of magnetic nanocomposite spheres under magnetic field will be explained. The results of recent publications about the effect of formation and addition of ferrites nanoparticles on structural, electrical and magnetic properties in sodium borosilicate glass will be represented. Thermal and dielectric characterization of electrospun PVP and PAN nanocomposite fiber will be discussed. The result of compressive strength for Portland cement pastes and mortars containing ferrites nanoparticles will be shown. As a work under preparation, the use of ferrites nanoparticles, which are considered as very stable oxide, as a cote for metal surfaces to resist the corrosion with primary results will be discussed.

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