

عنوان مقاله:

Different Superspin Ordering in Ferrite Nanoparticles

محل انتشار:

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خلاصه مقاله:

The effect of magnetic interactions on superspins configuration of 7 nm manganese ferrite nanoparticles has been reported. Ferrite samples were prepared by two different methods. The first sample (S1) was synthesized by thermal decomposition of metal nitrates. And the second sample (S2) was prepared by solvothermal method using Tri-ethylene glycol (TEG). Results indicated that, polymer coating changes the magnetic order of nanoparticles system. So that the sample S1 showed strongly interacting frustrated superspin glass (SSG) state while the sample S2 consists of weakly interacting superparamagnetic (SPM) nanoparticles.

کلمات کلیدی:

Ferrite nanoparticles, Interactions, Superspin glass, Superparamagnetic

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