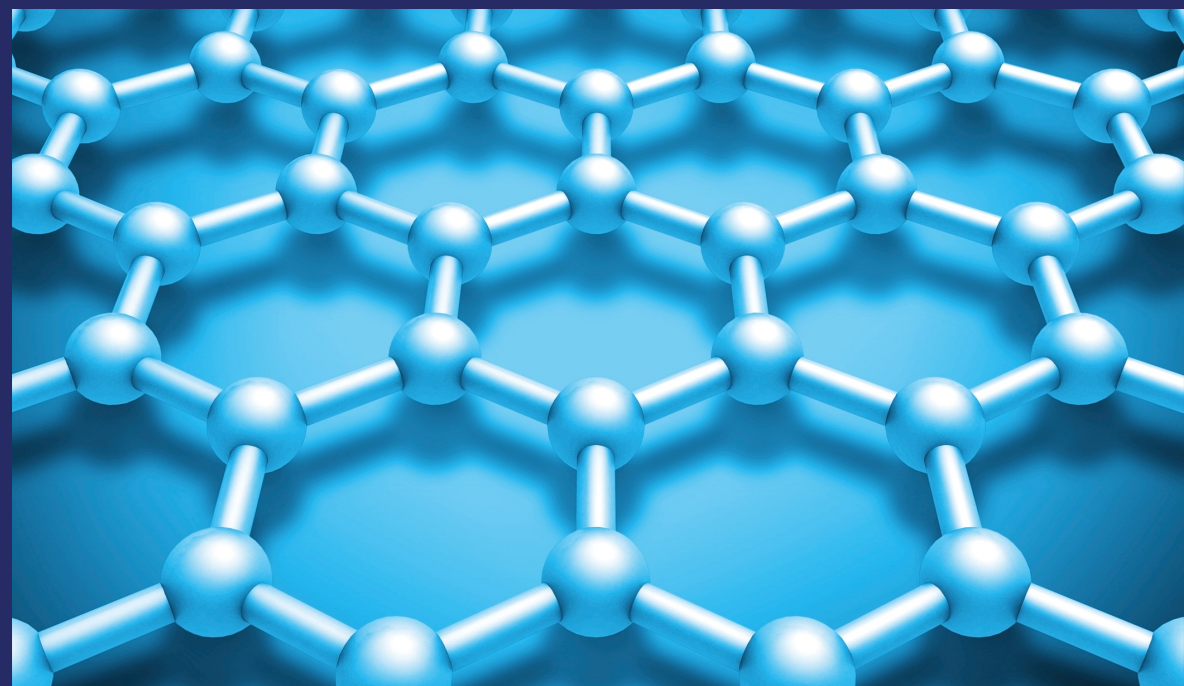


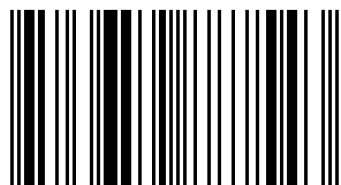
Magnetic nanoparticles attention recently due to their technological applications in microwave devices, high-density magnetic recording, electronic devices and medical instruments . The spinel ferrites magnetic nanoparticles are technologically important due to their various applications and the interesting physics and chemistry involved in. The recent trend is focused on the doped ferrites prepared using various synthesis techniques with different cation concentrations which affects the various properties like, electrical, dielectric, and magnetic behavior. Ferrite materials are important magnetic materials, which have various applications in power conditioning and conversion. Due to their distinct magnetic properties, ferrite materials have been widely used to prepare many electromagnetic devices such as inductors, converters, phase shifters and electromagnetic wave absorbers. Since, the temperature dependence of the magnetoelastic properties is strongly dependent on the magnetostriction and magnetic anisotropy, as well as coercivity, permeability, and chemical composition of the material.



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Synthesis and Studies on the Properties of Ferritic Nanoparticles

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