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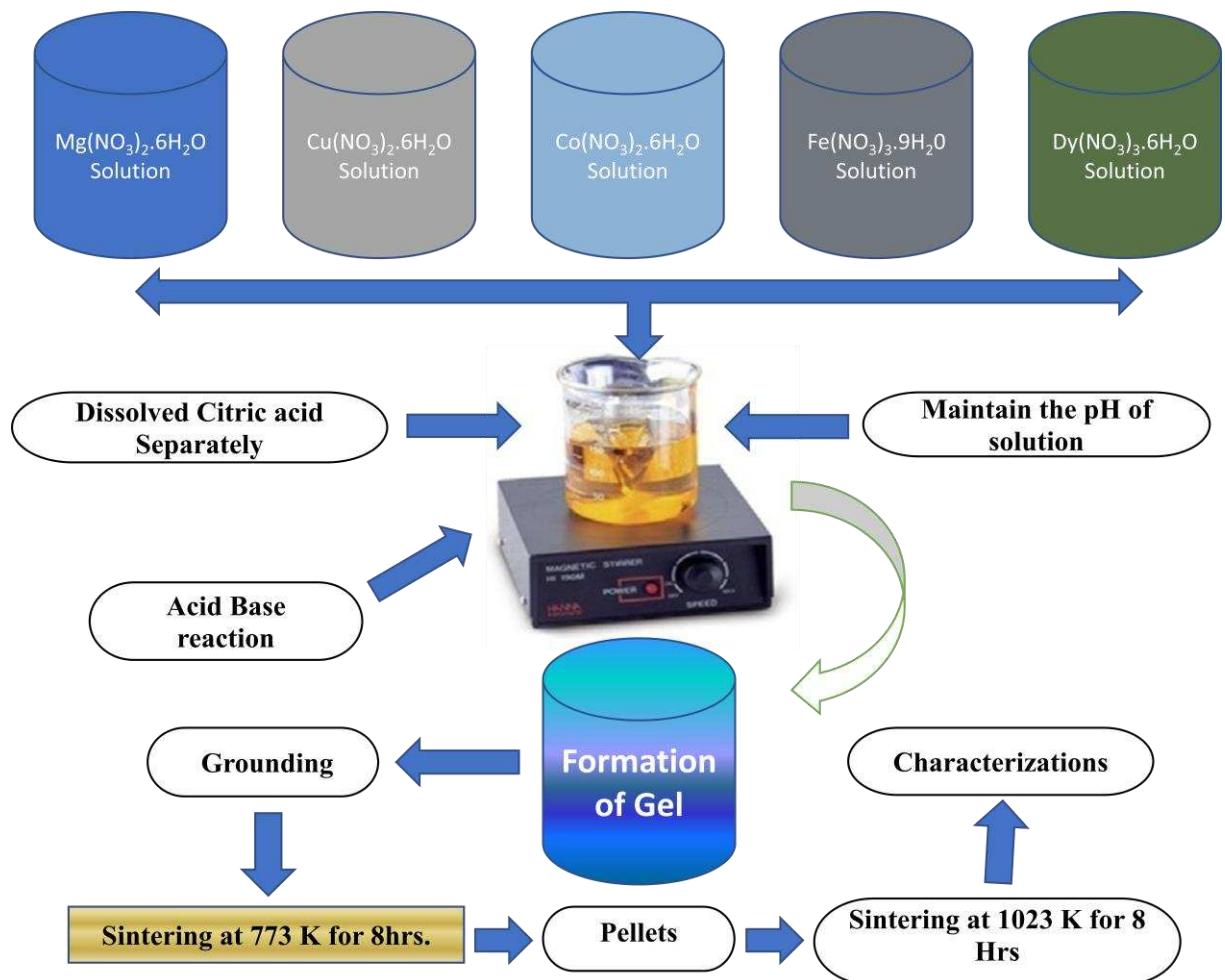


Fig. 1. Flow chart for preparation of *MCCD-soft* ferrites by sol-gel route

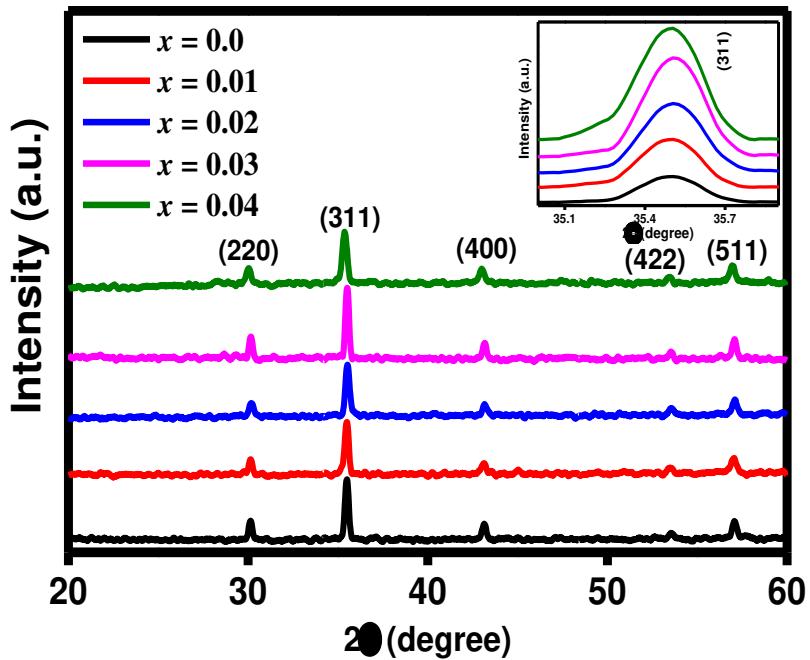


Fig. 2. XRD patterns of *MCCD-soft ferrites*

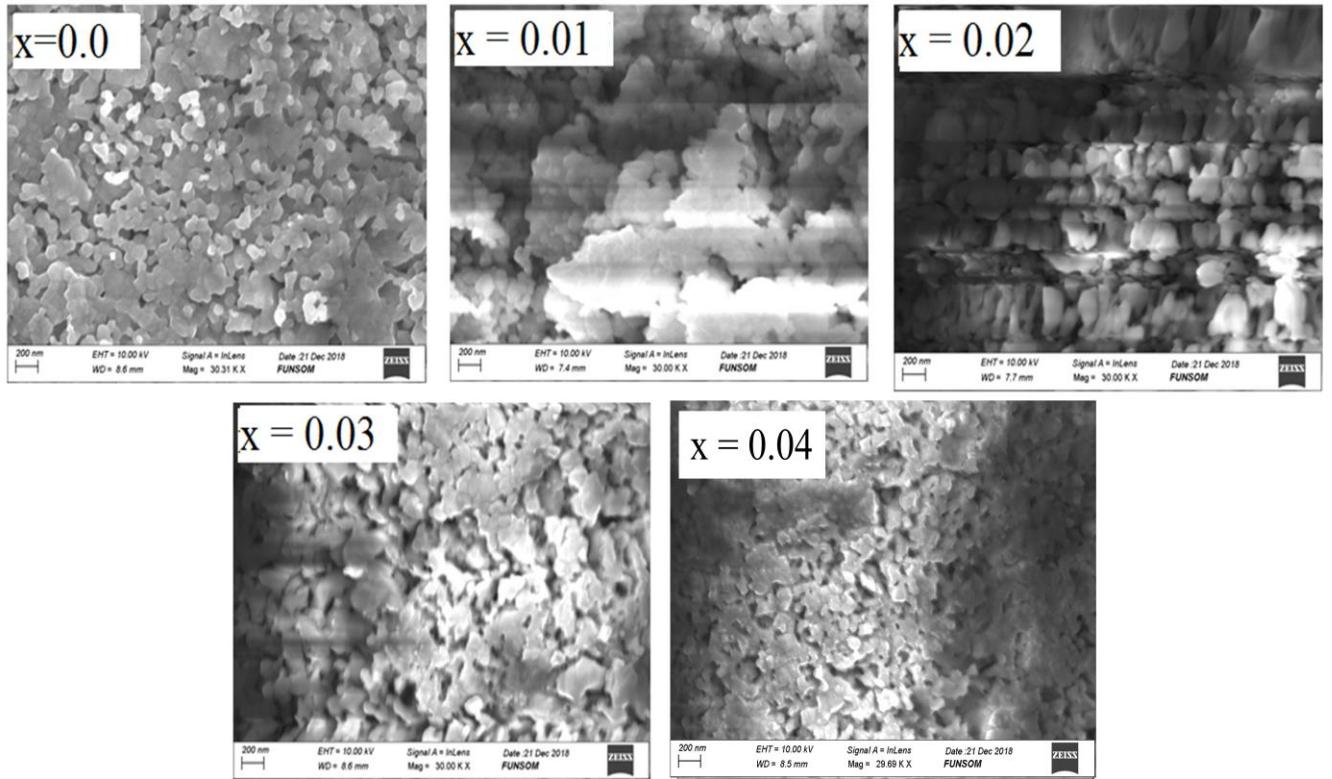


Fig. 3. SEM micrographs of *MCCD-soft ferrites*

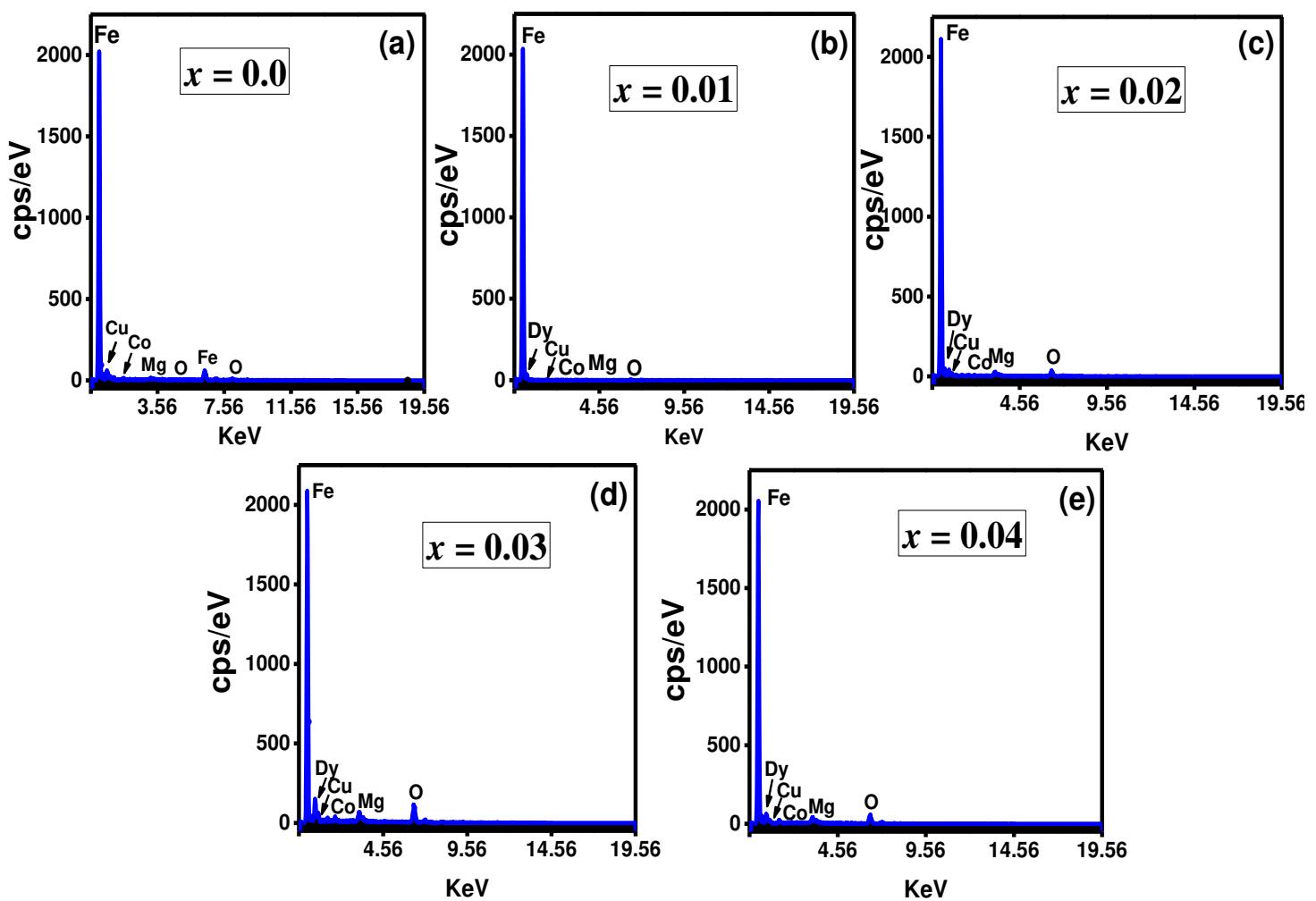


Fig. 4. EDS spectra of *MCCD-soft ferrites*

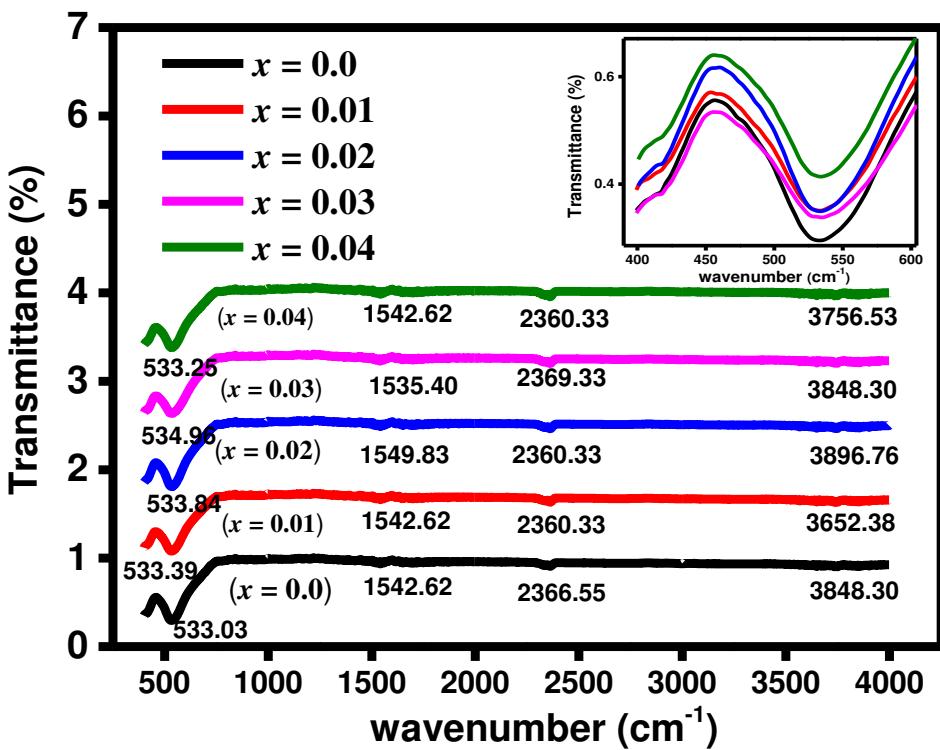


Fig. 5. FTIR spectra for *MCCD-soft ferrites*

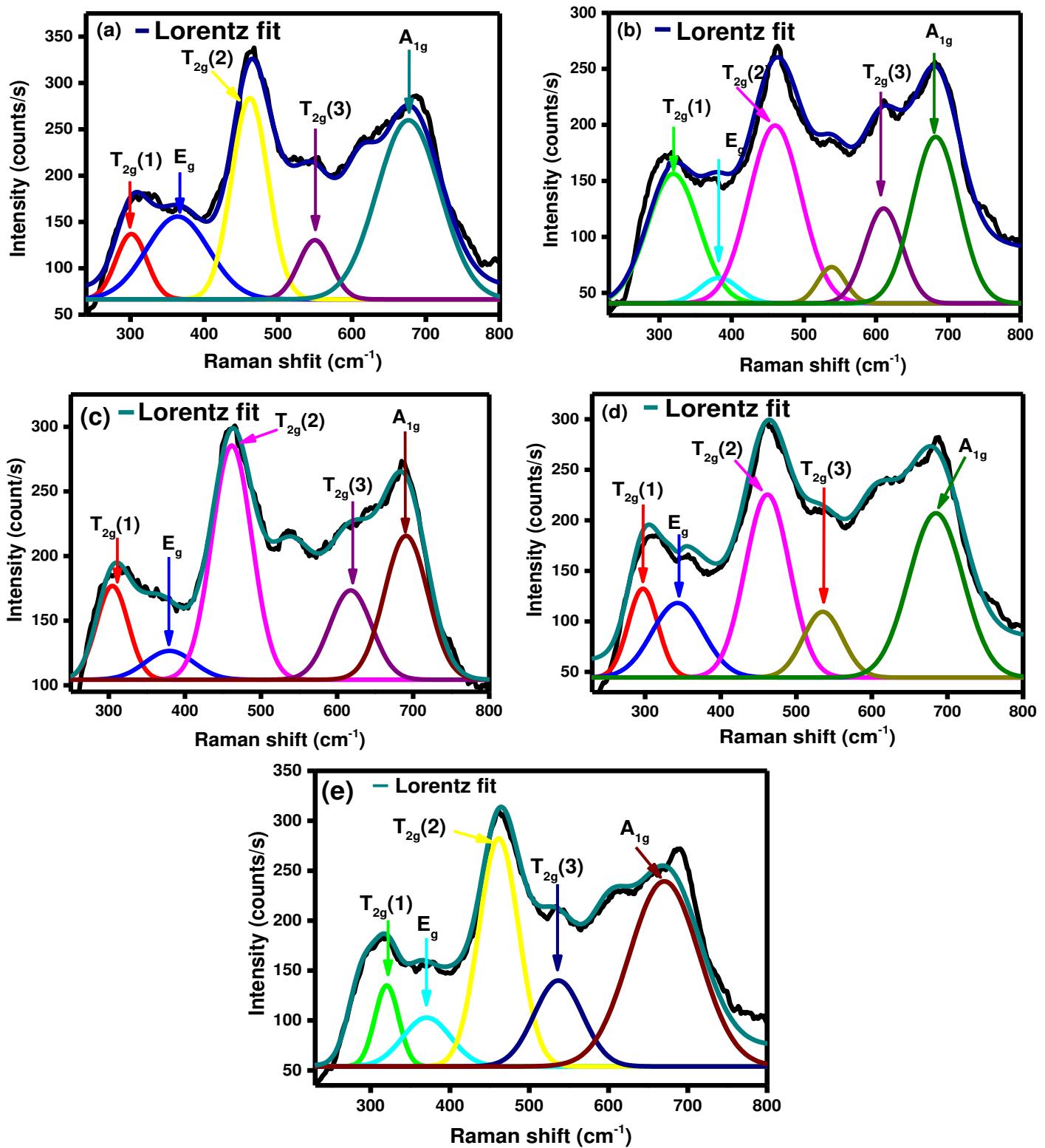


Fig. 6(a-e). Raman spectra for MCCD-soft ferrites

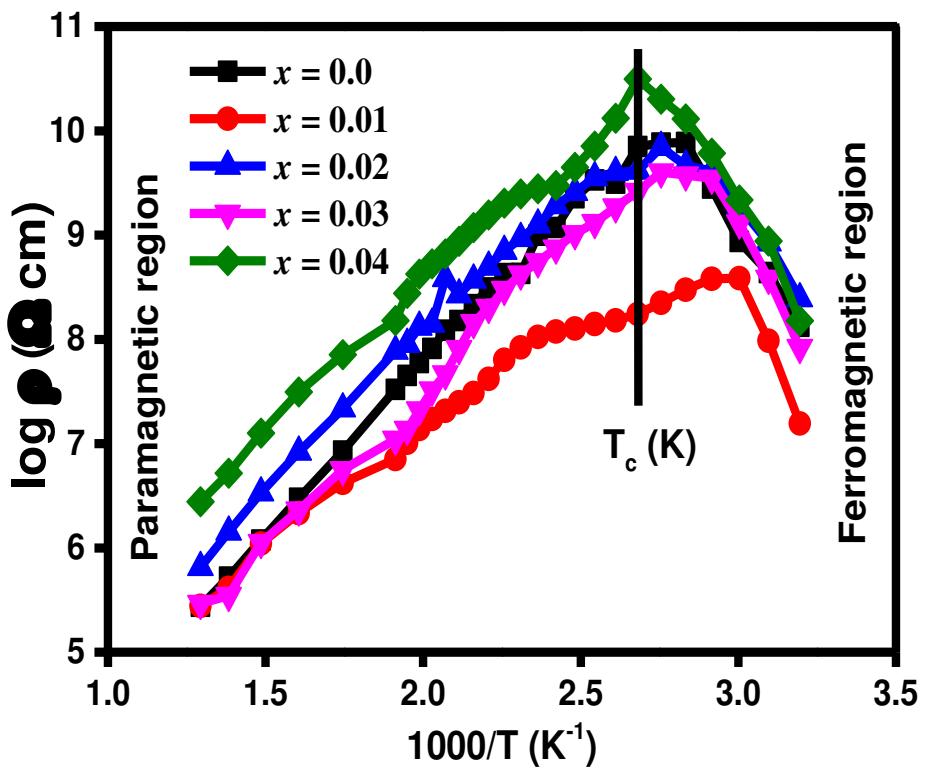


Fig. 7. Graph between DC resistivity and inverse of temperature for *MCCD-soft ferrites*

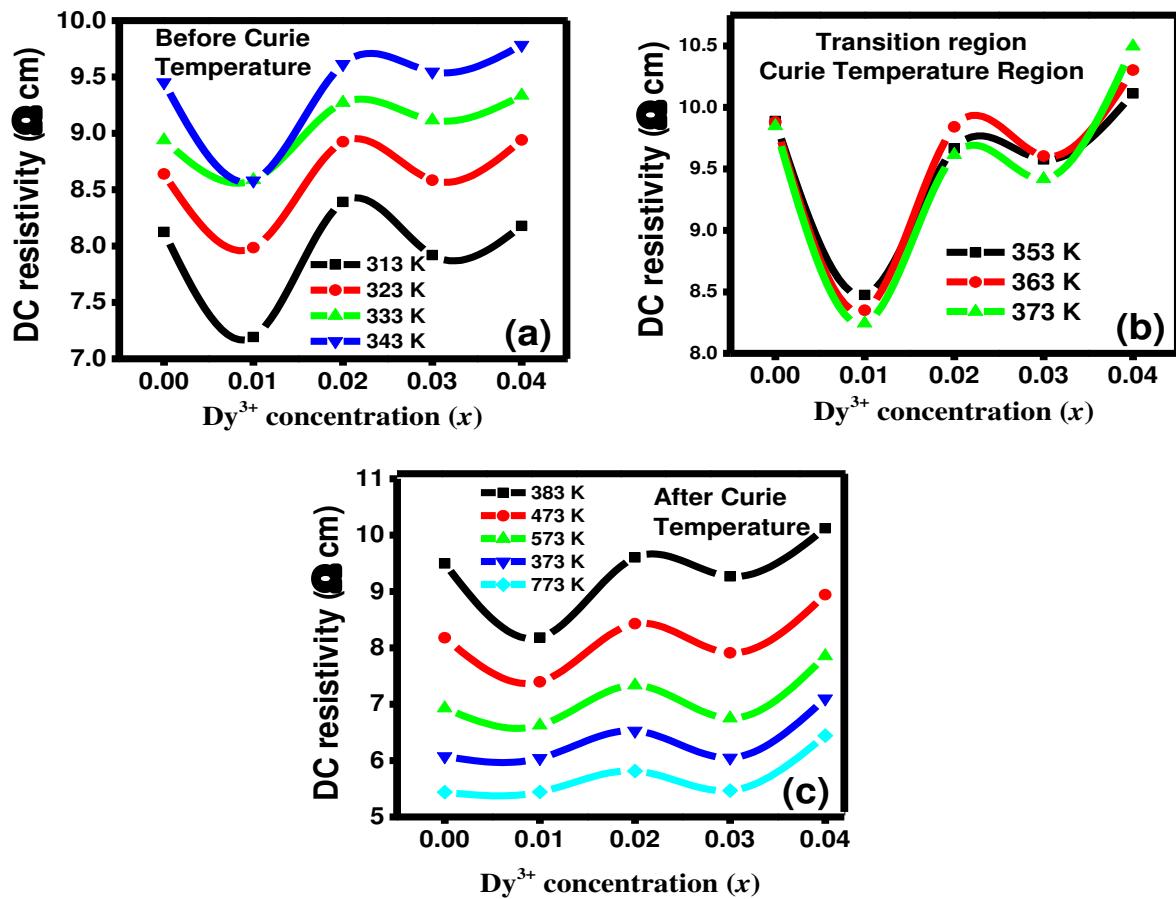
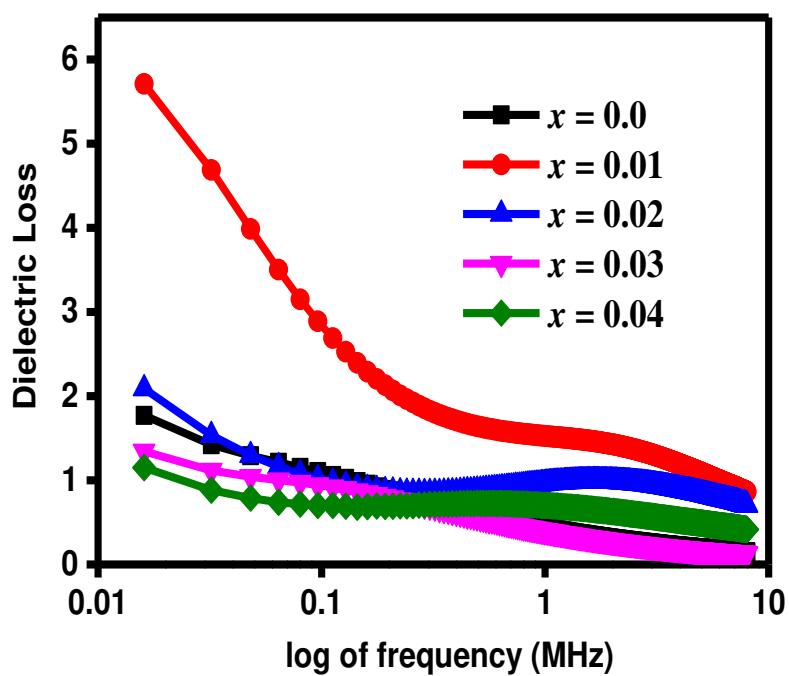
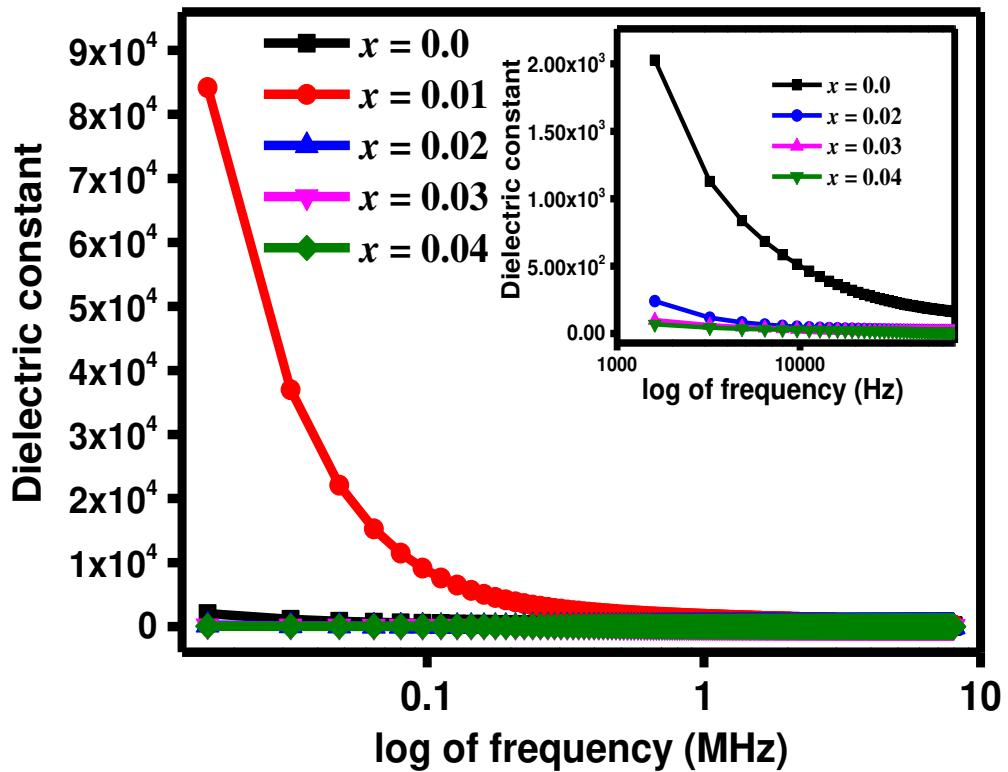


Fig. 8. Dy³⁺ concentration *versus* DC resistivity (a) before Curie temperature (b) at Curie or transition temperature region (c) after the Curie temperature for *MCCD-soft ferrites*



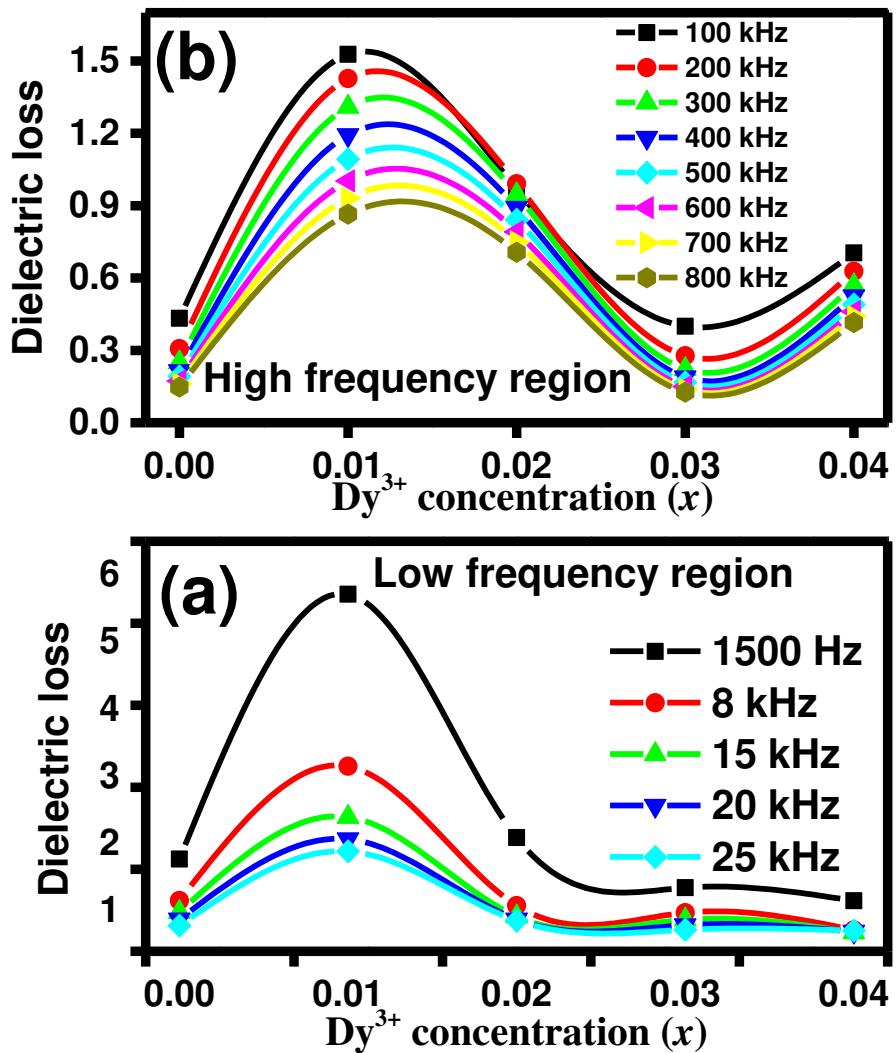


Fig. 11(a). Dy^{3+} concentration *versus* dielectric loss at low frequency region **(b)** Dy^{3+} concentration *versus* dielectric loss at high frequency region for *MCCD-soft ferrites*

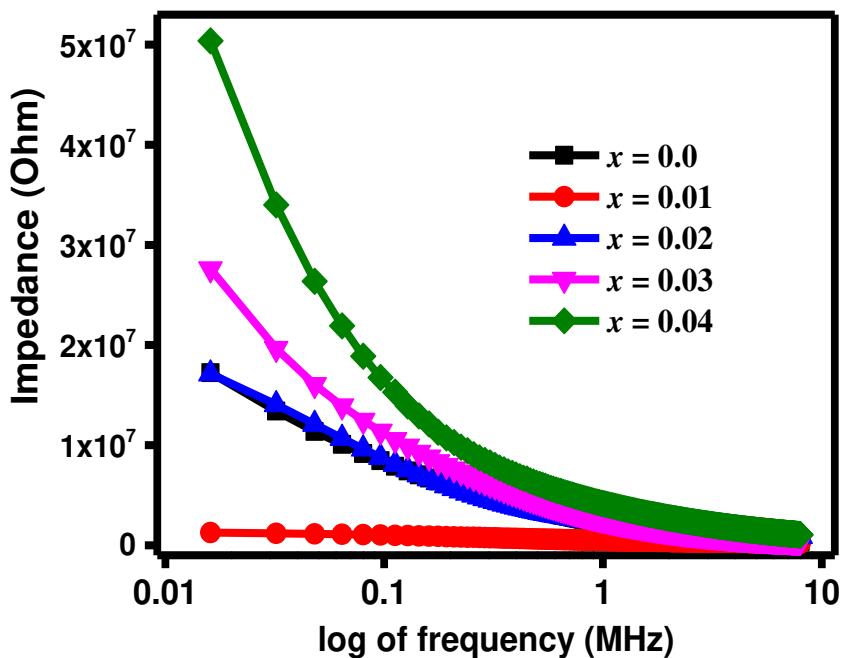


Fig. 12. Plot between log of frequency and dielectric impedance for *MCCD-soft ferrites*

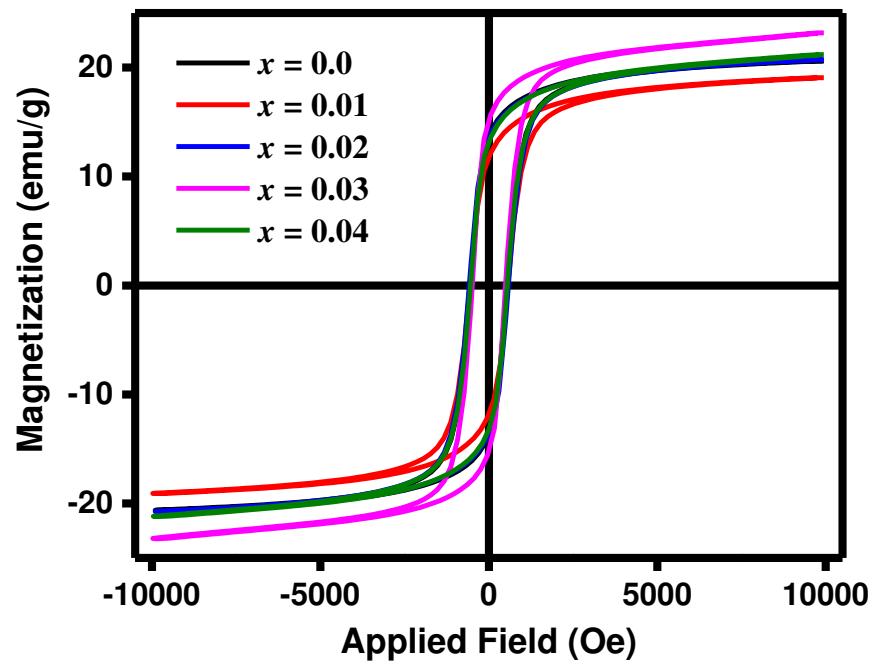


Fig. 13. Hysteresis loops for *MCCD-soft ferrites*