

Nomenclatures

M - Magnetization

χ - Susceptibility

H - Applied magnetic field

T - Absolute Temperature

η_B - Bohr magneton

H_C - Coercivity

M_r - Remnent magnetization

M_S - Saturation magnetization

μ - Permeability

R_A - Radii of Tetrahedral metal ions

R_B - Radii of Octahedral metal ions

R_O - Radius of Oxygen

u- Oxygen parameter

a- Lattice constant

H_O - External applied field

H_m - Molecular field

γ - Molecular field coefficients

λ - X-ray wavelength

θ - Braggs angle

β - Angular line width

L_A - Distance between tetrahedral ions

L_B - Distance between octahedral ions

d - Inter planar spacing

d_{AX} - Bond length of tetrahedral

d_{BX} - Bond length of octahedral

d_{AXE} - Tetrahedral edge

d_{BXE} - Octahedral edge

D - Average crystalline size

N - Avagadro number

X - Zinc composition

(hkl) - Miller Indices

$^{\circ}C$ - Degree Celsius

A - Tetrahedral site

A - Area

B -Octahedral site

SEM - Scanning Electron Microscope

VSM - Vibrating sample magnetometer

TGA- Thermo gravimetric analysis

DTA- Differential thermal analysis