

**LIST OF SYMBOLS AND ABBREVIATIONS**

$\alpha$	-	Alpha
$\theta$	-	Angle of diffraction
N	-	Avogadro's number
$\mu_B$	-	Bohr magnetron
$H_c$	-	Coercivity
CuK $\alpha$	-	Copper K-alpha radiation
$T_C$	-	Curie temperature
$^\circ$	-	Degree
emu	-	Electro magnetic unit
EPR	-	Electron Paramagnetic Resonance
eV	-	Electron Volt
EDX	-	Energy dispersive X-ray Analysis
FTIR	-	Fourier Transform Infrared Spectroscopy
$\nu$	-	Frequency
K	-	Kelvin
H	-	Magnetic field
$\mu$	-	Magnetic Moment
M	-	Magnetization
$\gamma$	-	Microwave frequency
$\Omega$	-	Ohm
PL	-	Photoluminescence Spectroscopy
h	-	Planck's constant
B	-	Resonance Field
$\Delta H$	-	Resonance line width
$M_R$	-	Retentivity
$M_S$	-	Saturation Magnetization

SEM	-	Scanning Electron Microscope
T	-	Temperature
TEM	-	Transmission Electron Microscope
VSM	-	Vibrating Sample Magnetometer
XRD	-	X-ray diffraction
XPS	-	X-Ray Photoemission spectroscopy