

## LIST OF TABLES

---

Table-I	Wt%, At% and elemental atomic ratio of Ni-doped ZnO nanoparticles.	45
Table-II	The $2\theta$ for the observed peaks in the XRD spectra of $Zn_{1-x}Ni_xO$ .	46
Table-III	The lattice parameters of Ni-doped ZnO nanoparticles of studied compositions.	49
Table-IV	Interplanar spacing of the (101) plane for 6% and 9% Ni-doped ZnO.	50
Table-V	The average crystallite size of $Zn_{1-x}Co_xO$ series.	66
Table-VI	The average crystallite size of $Zn_{1-x}Fe_xO$ series.	82
Table-VII	The average crystallite diameter of $Zn_{1-x}Mg_xO$ series.	102
Table-VIII	Lattice parameter a and c value of Mg-doped ZnO nanoparticles.	102
Table-IX	The average crystallite diameter and lattice parameter of $Zn_{1-x}Nd_xO$ series.	122