Synthesis and characterization of some metal complexes with some thiourea derivatives containing heterocyclic nucleus

Three types of ligands were synthesized (PhMeTzTu), (AllMeTzTu). The prepared the ligands were characterized by elemental analysis and by $^{13}$C, $^1$H NMR, IR, mass spectra and single crystal x-rays studies, and with some physical studies like the micro elemental analysis. The corresponding complexes of these ligand were synthesized by the reaction of the ligands with Ni(II), Co(III), Cu(II), Pd(II), Pt(II) at molar ratio of 1:1, 1:2 and 1:3., there chemical structures were characterized with the pervious spectral studies as well as the UV-Vis-IR electronic spectroscopy, conductivity and thermal