

Ham

Reference X-ray Spectra
of
Metal Foils



Reference X-ray Spectra of Metal Foils

The x-ray spectra compiled here for the following metal foils were recorded at synchrotron beamlines 1-5, 4-2 and 7-3 at SSRL using Si(220) double crystal. The spectra of Ag, Pt and Au were recorded with Si(111) on beamline X-11A at NSLS. All spectra were taken at room temperature in the transmission geometry. In the region -50 eV to +50 eV about the absorption edge, each spectrum was scanned in step sizes of 0.5 eV. An entrance slit of 1mm and 0.5 mm was used for Si(220) and Si(111) respectively. The spectrometer resolution is estimated to be ~0.5 eV at the K-edge of Ti and ~1.5 eV at the K-edge of Cu. For each element, the tabulated edge energy (Bearden & Burr, Rev. Mod. Phys. 39, 125 (1967)) is taken at the first inflection point in the derivative spectrum.

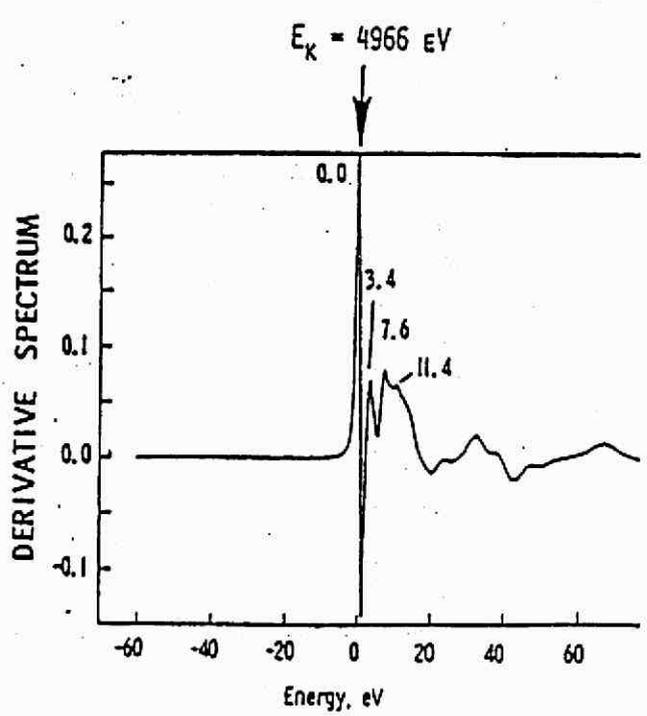
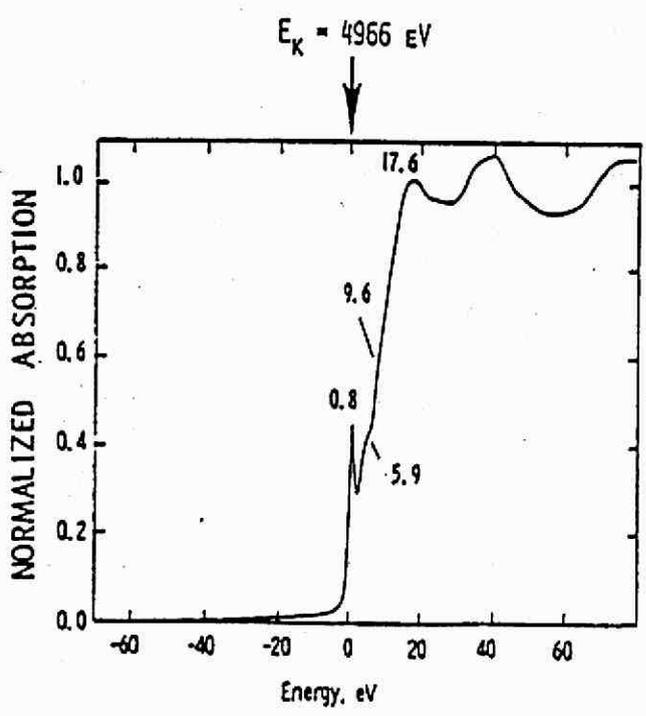
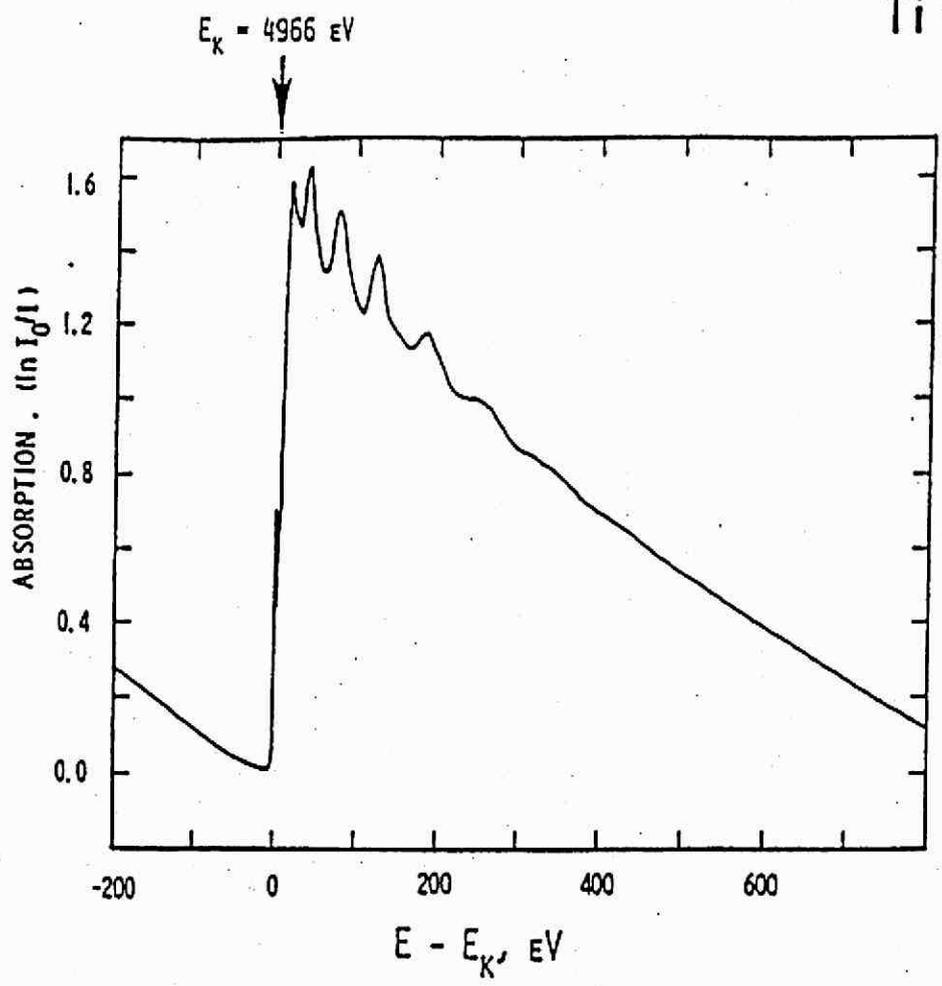
Element: Ti V Cr Mn Fe Co Ni Cu Zn Ge

Page: 1 2 3 4 5 6 7 8 9 10

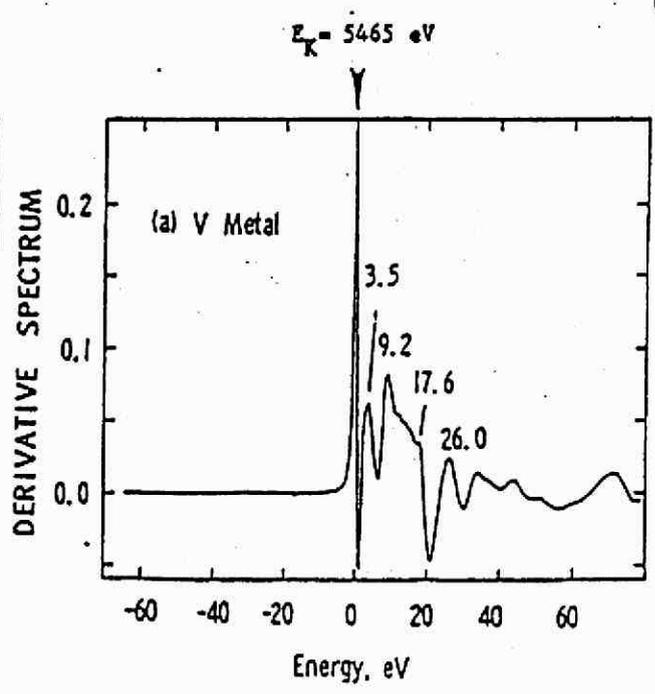
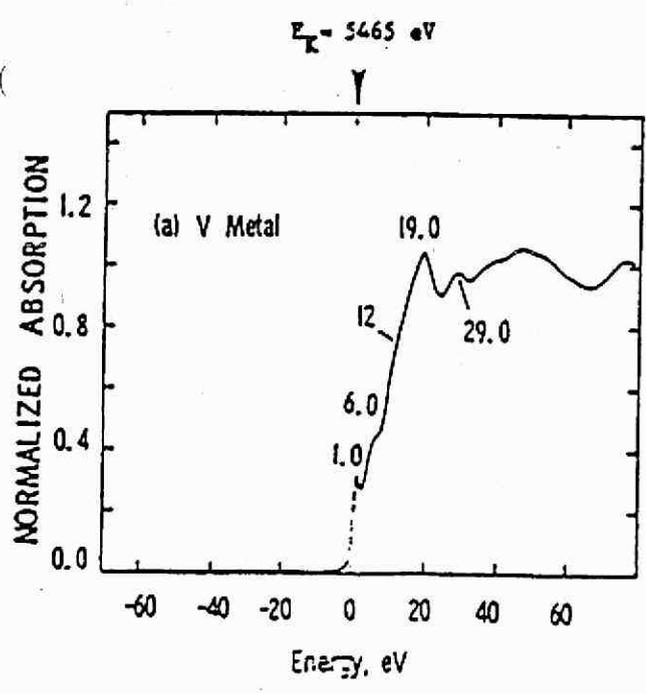
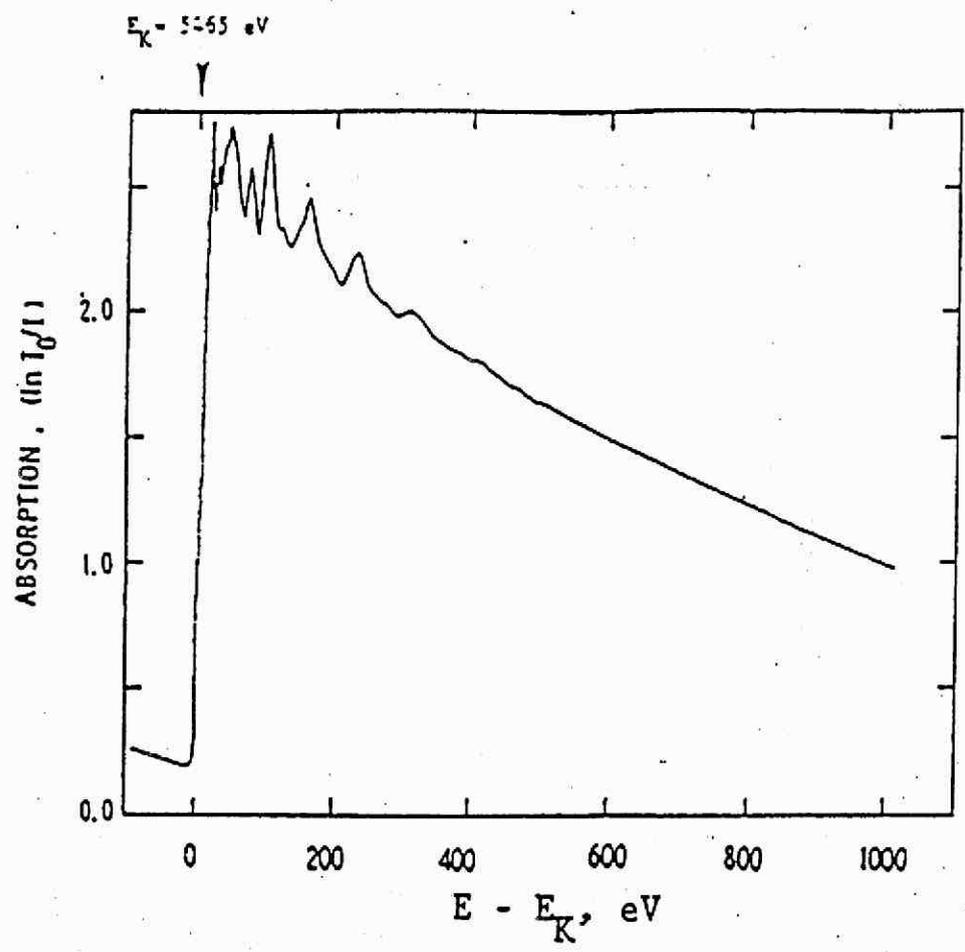
Element: Zr Nb Mo Pd Ag Ta Pt Au Pb

Page: 11 12 13 14 15 16 17 18 19

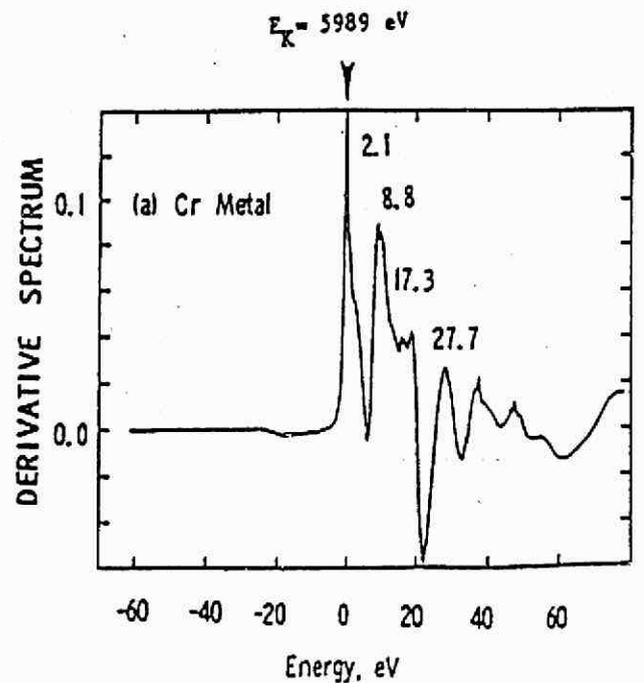
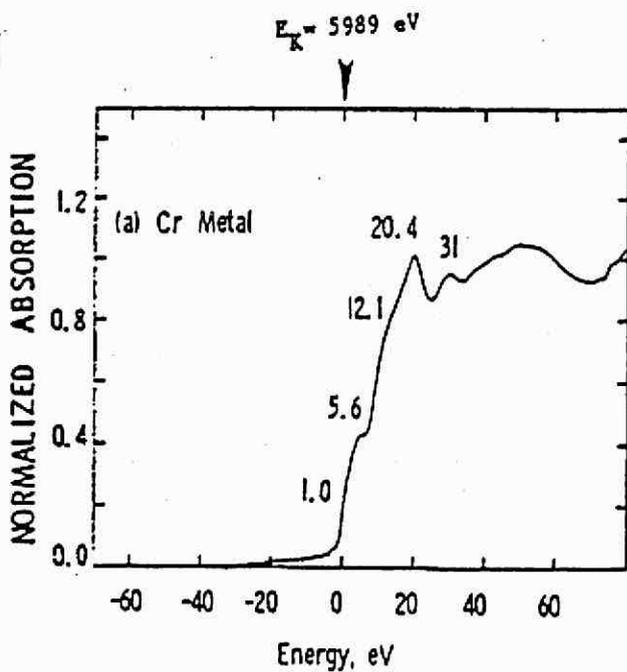
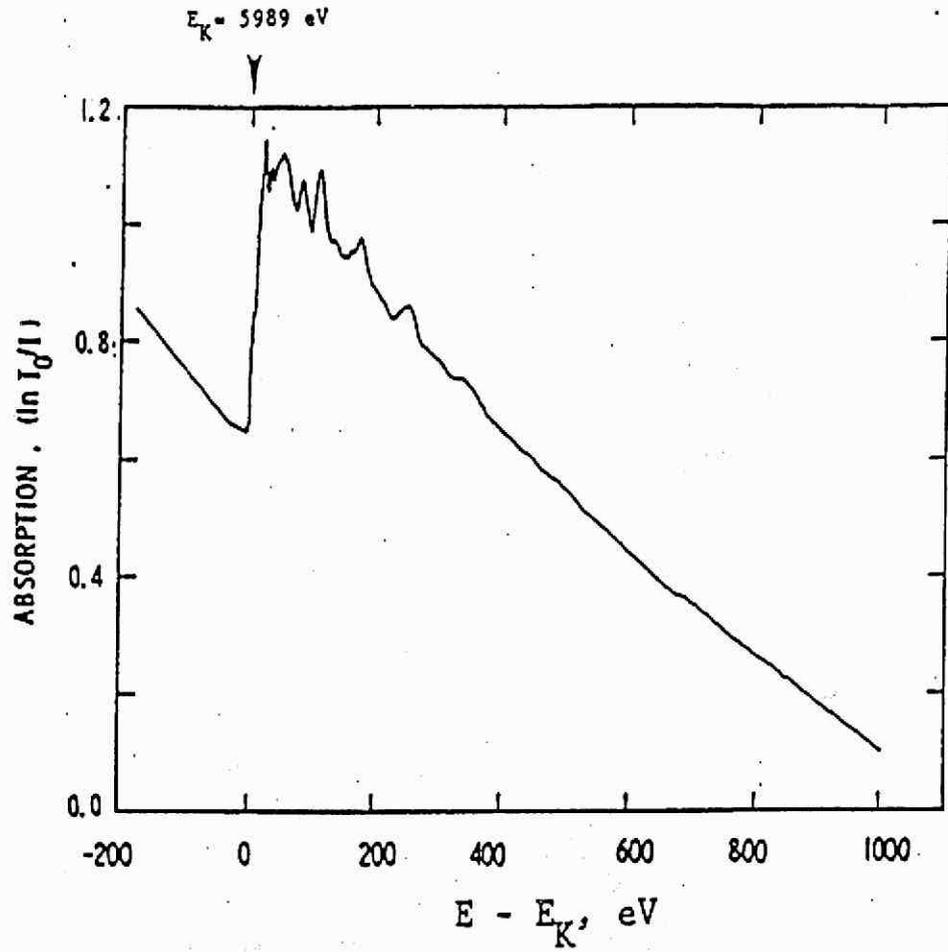
Ti



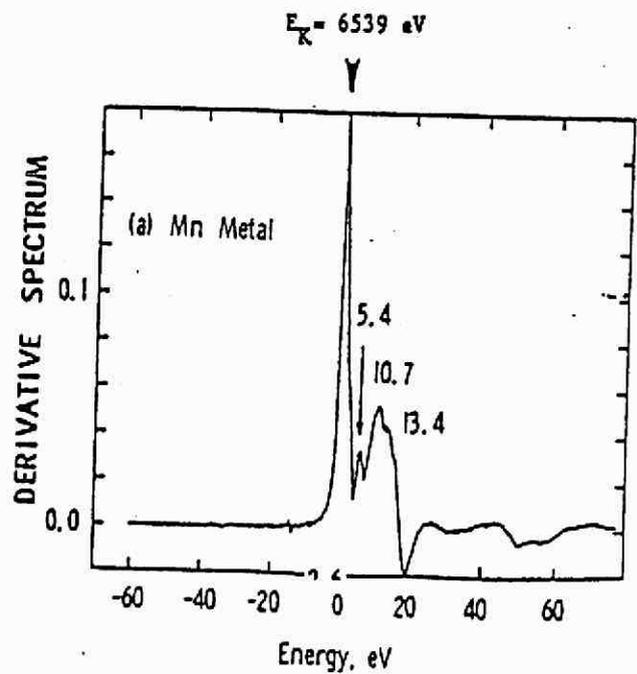
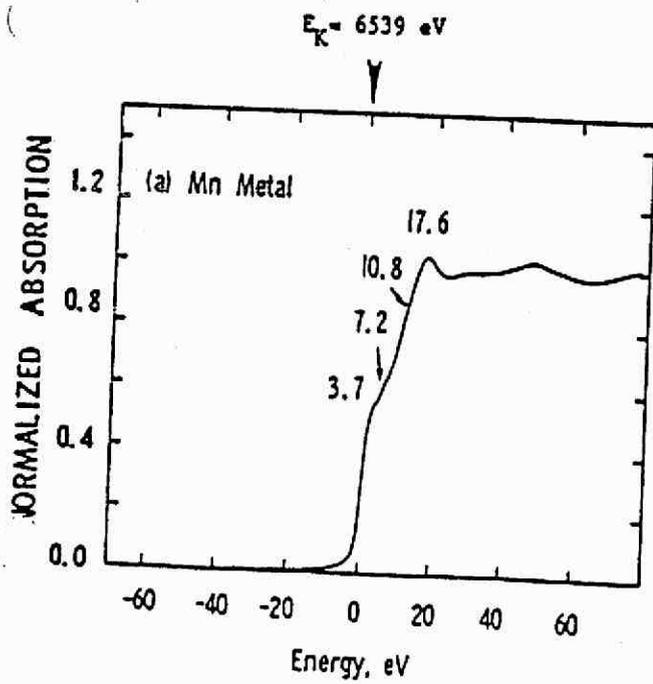
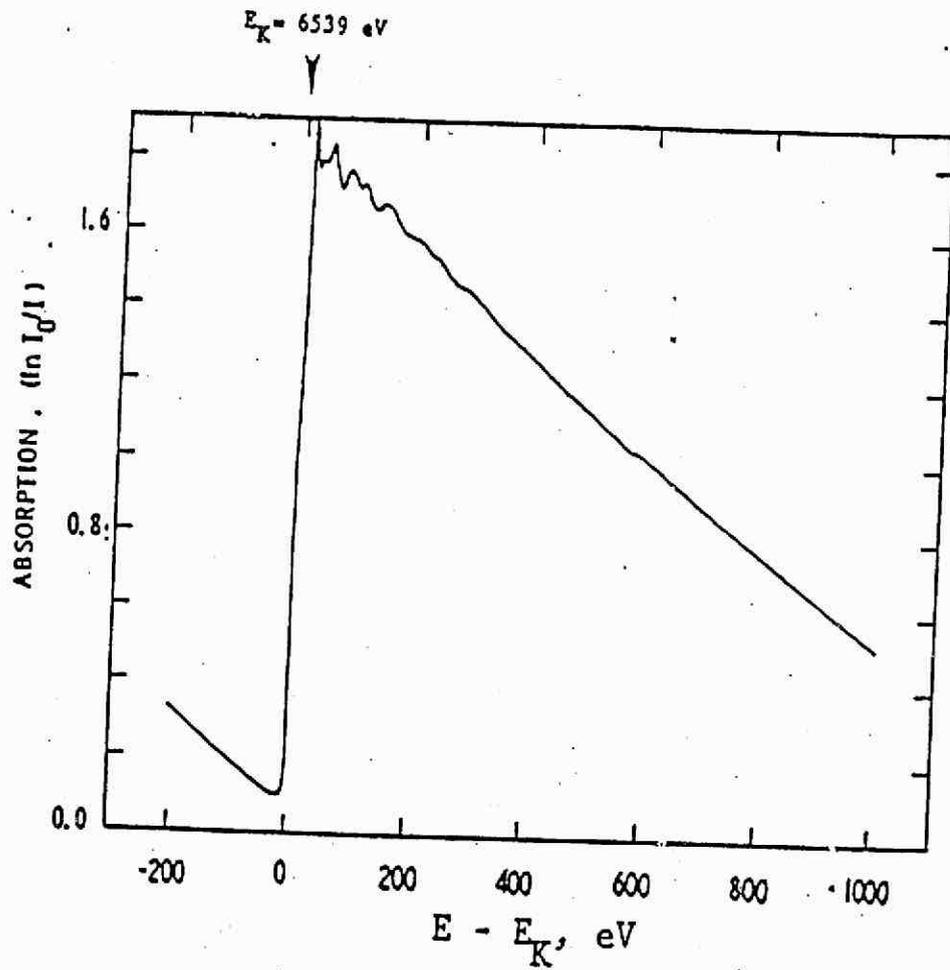
V



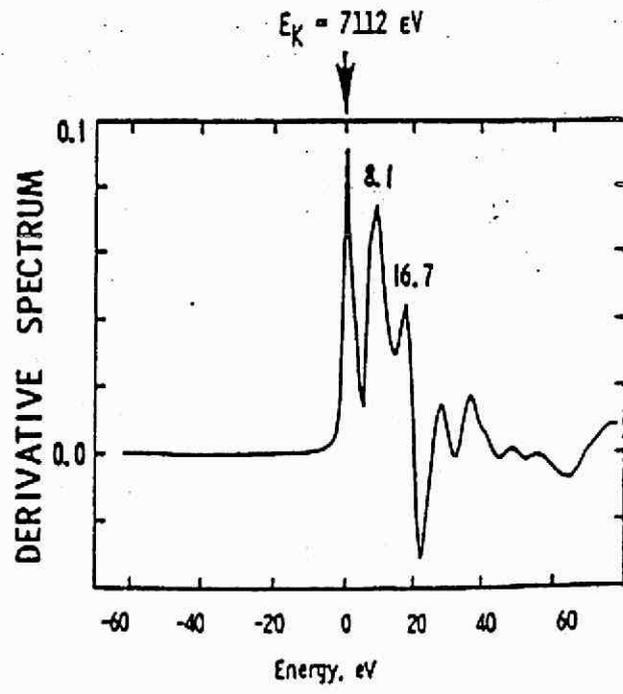
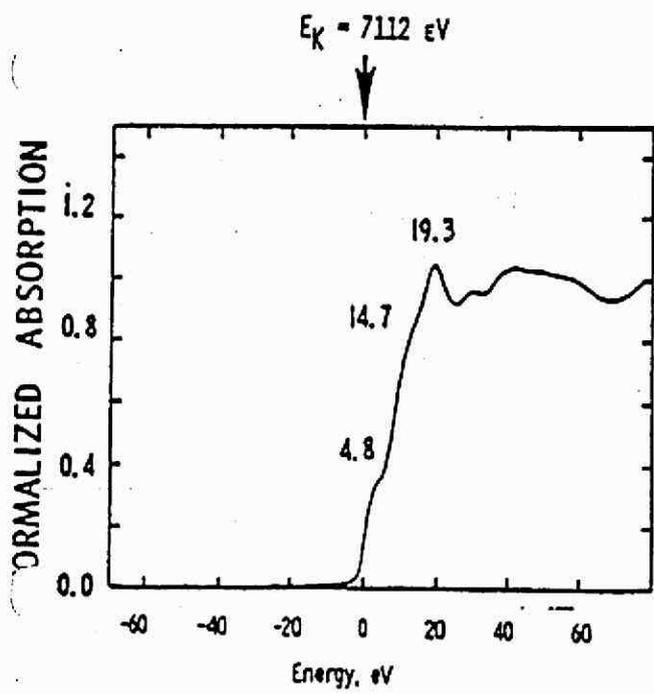
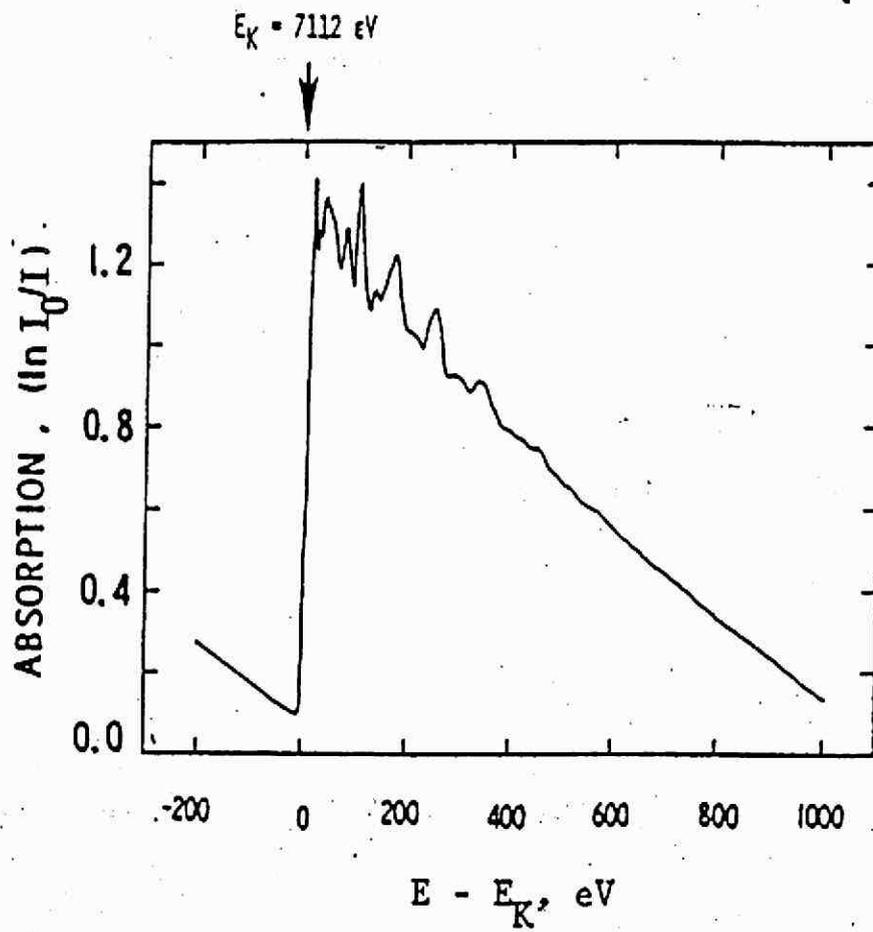
Cr



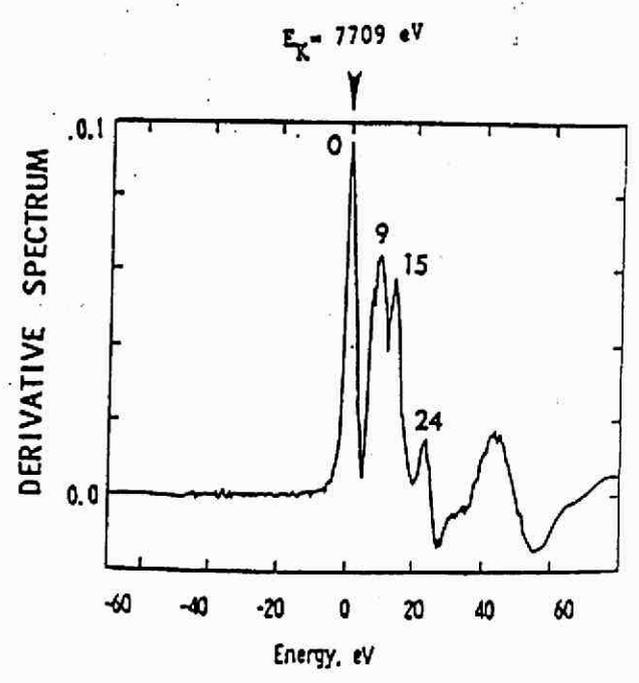
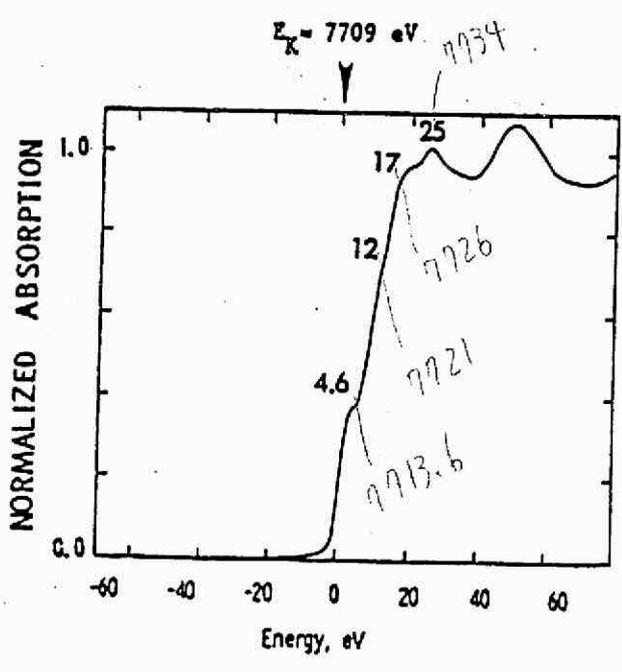
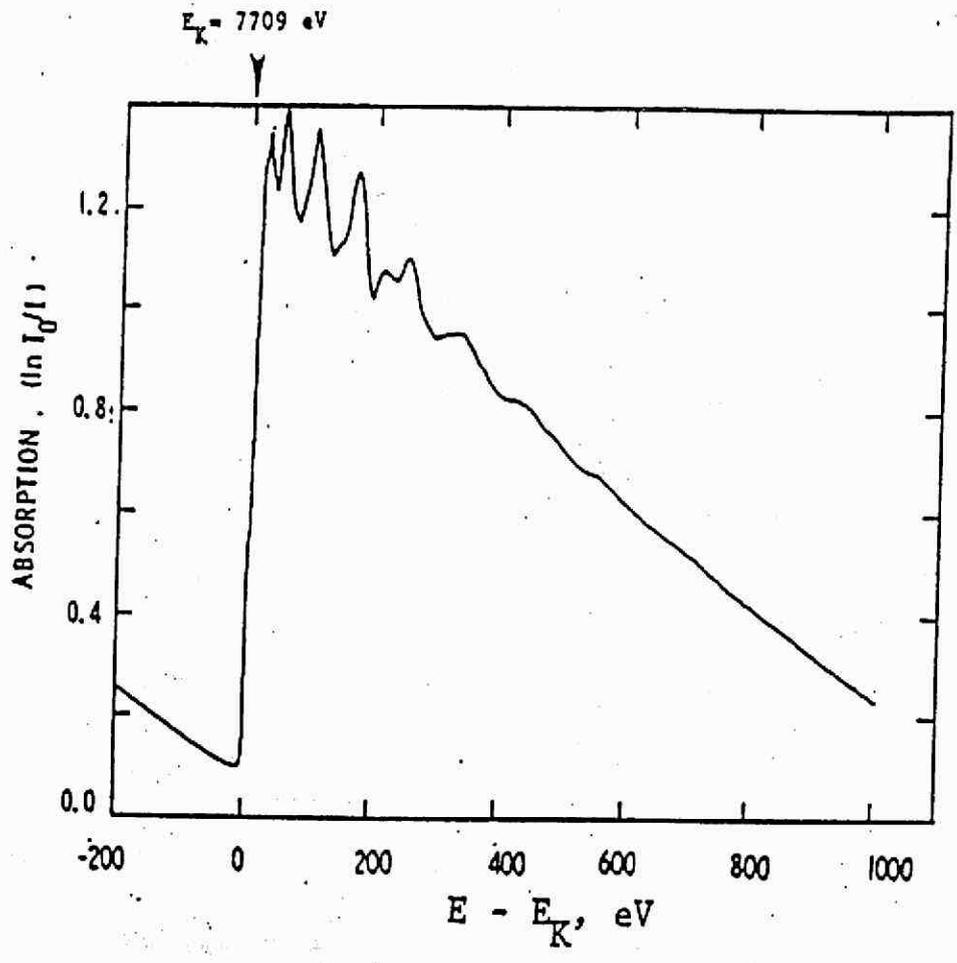
Mn



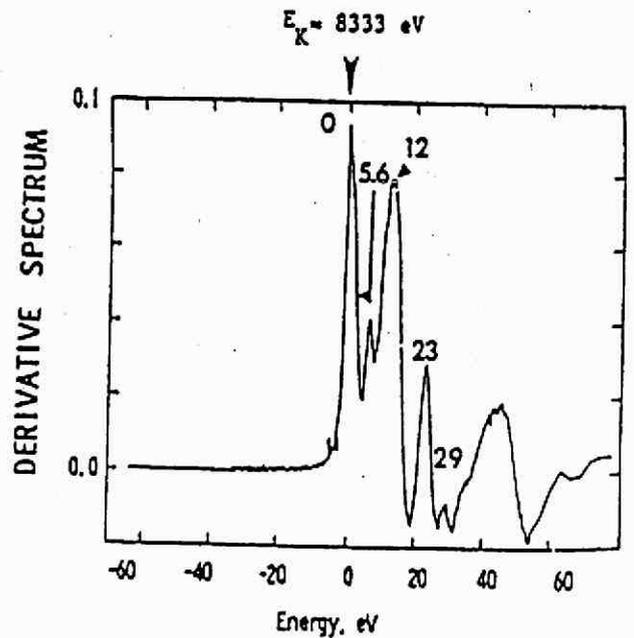
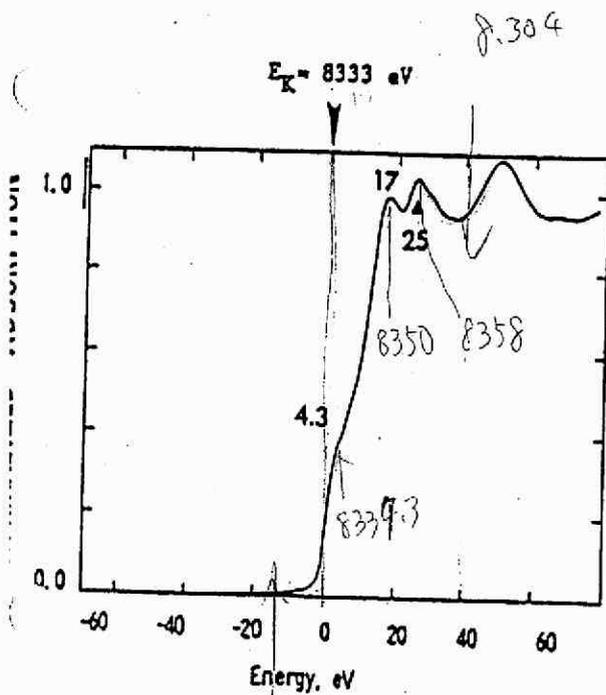
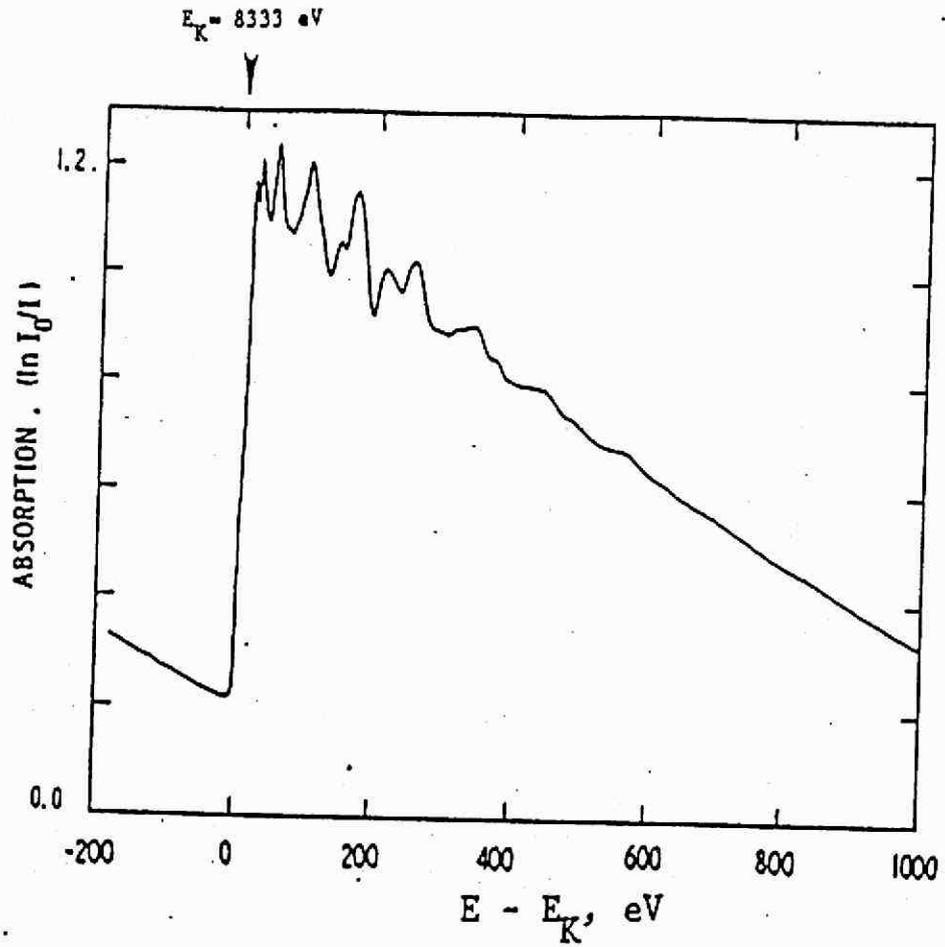
Fe



Co

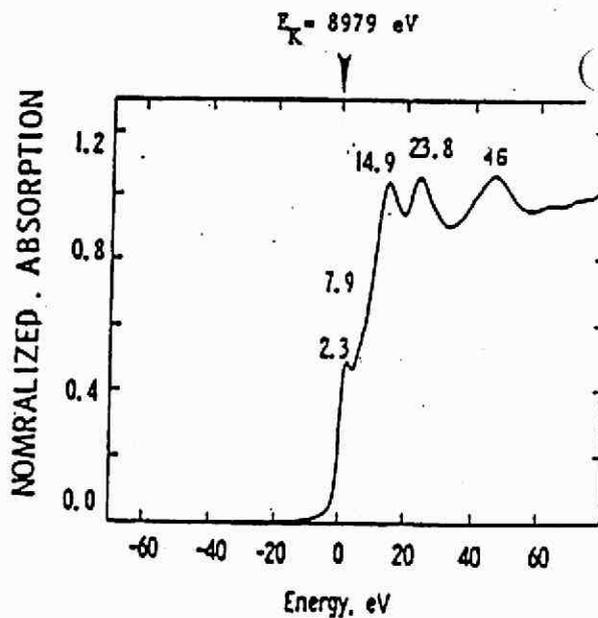
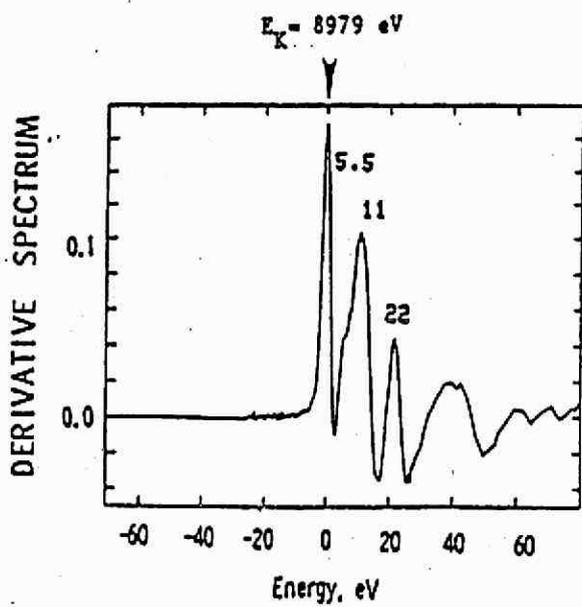
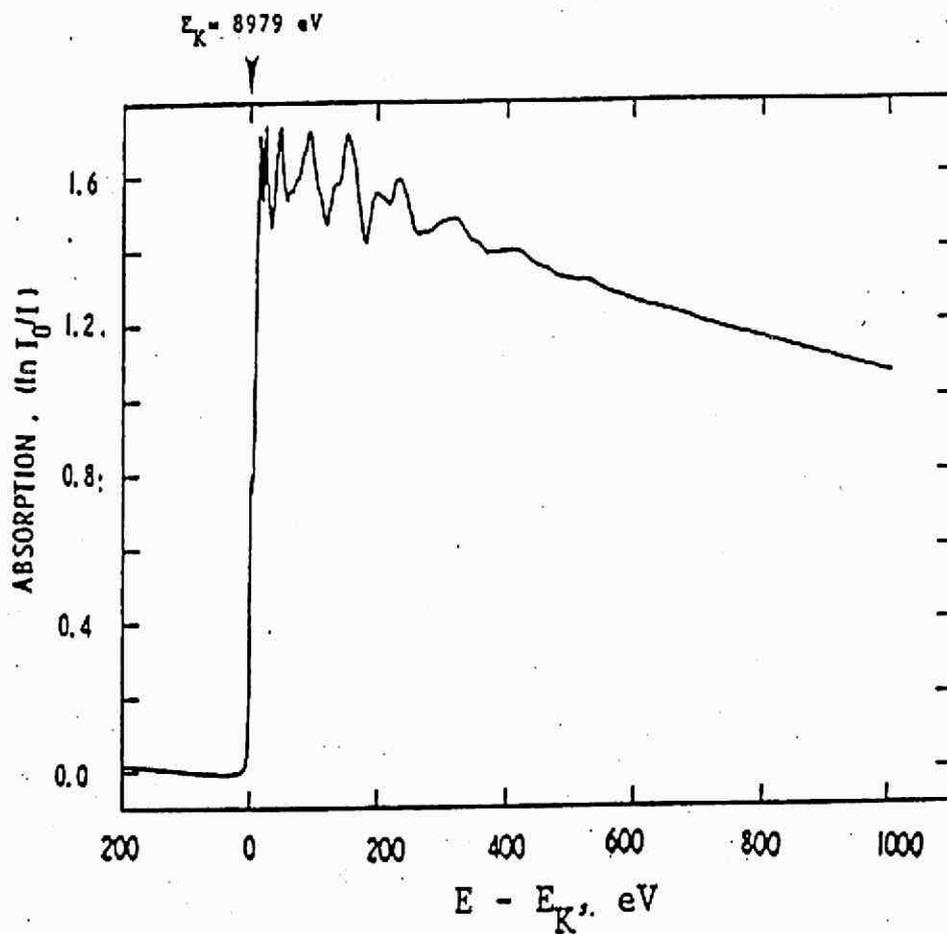


Ni

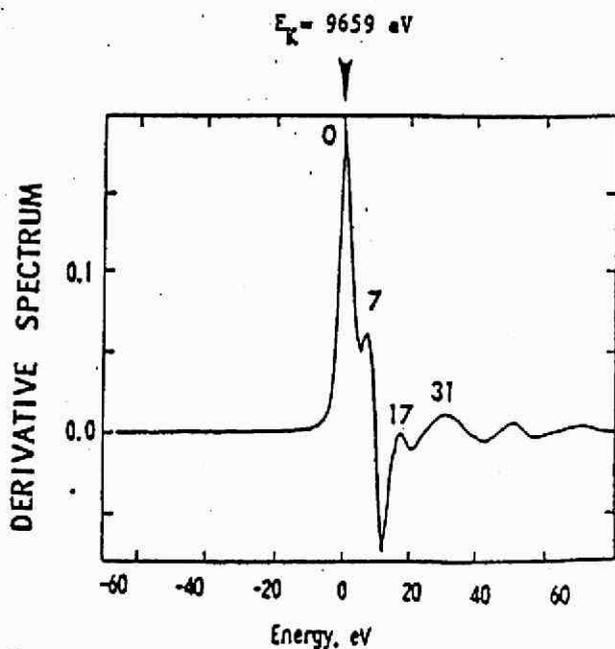
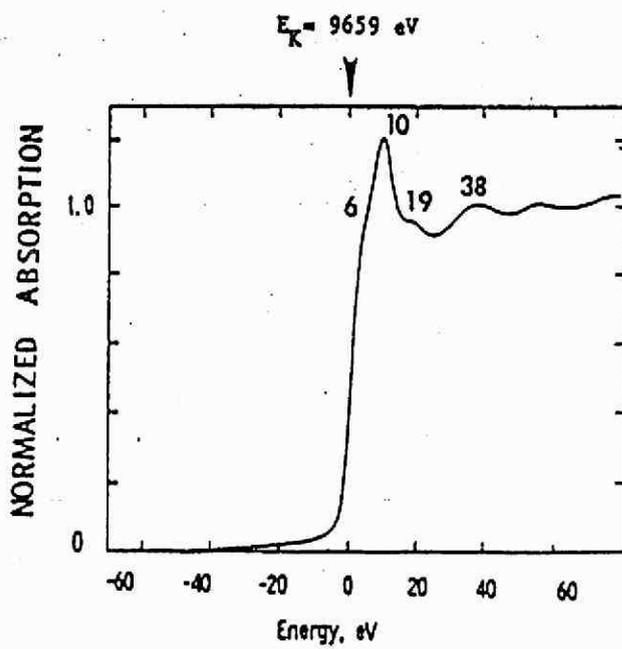
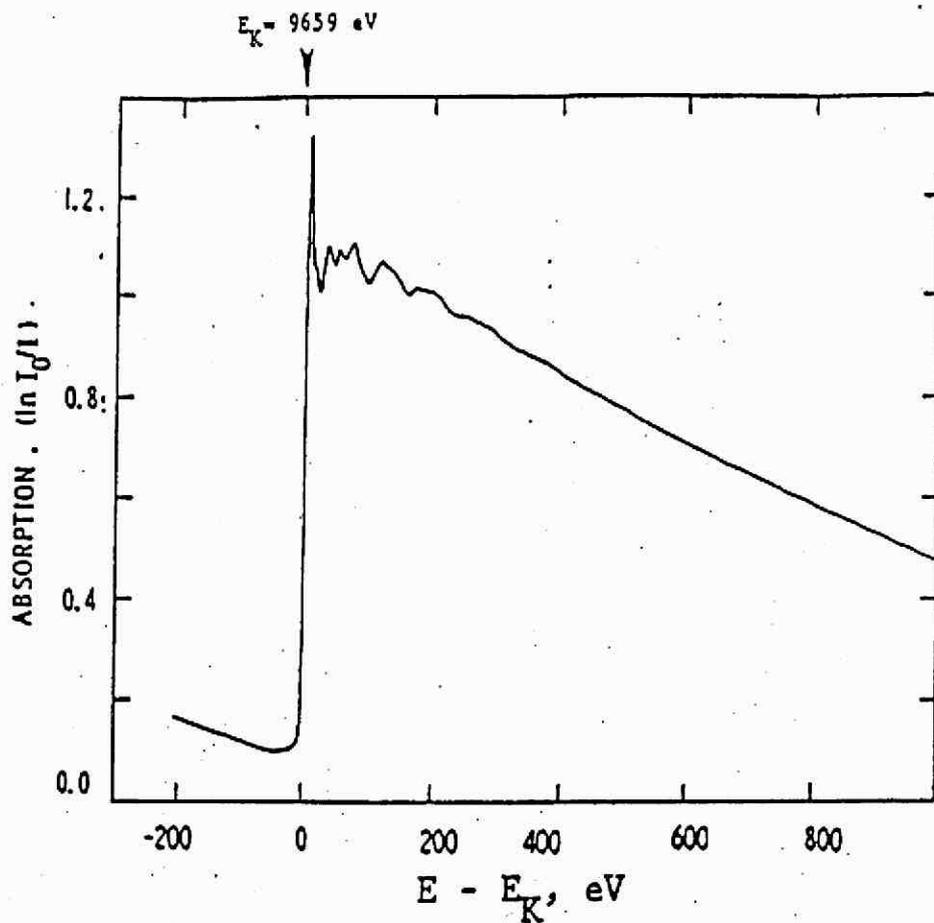


8320 ~ 8370

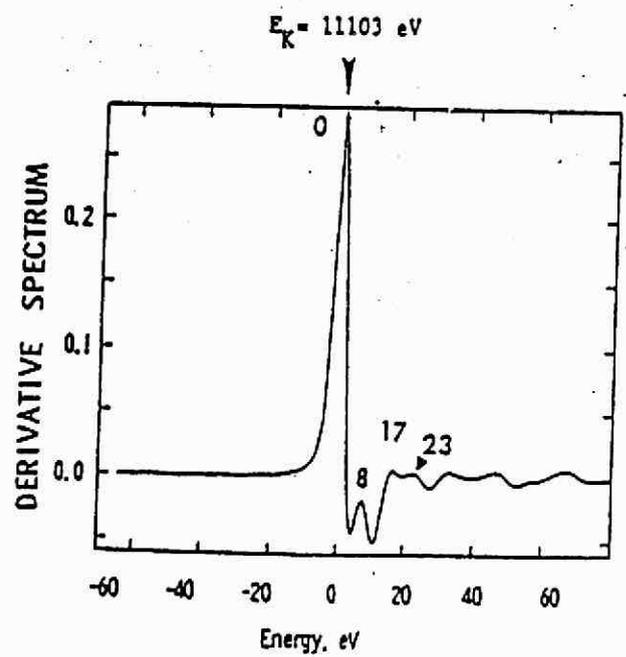
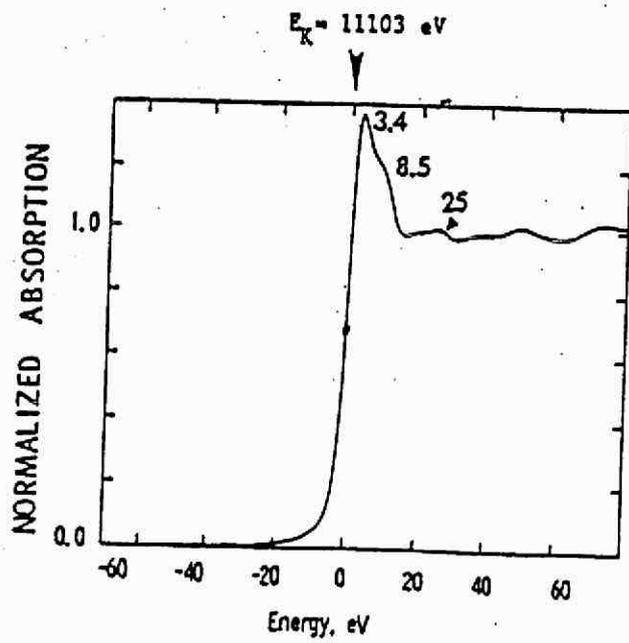
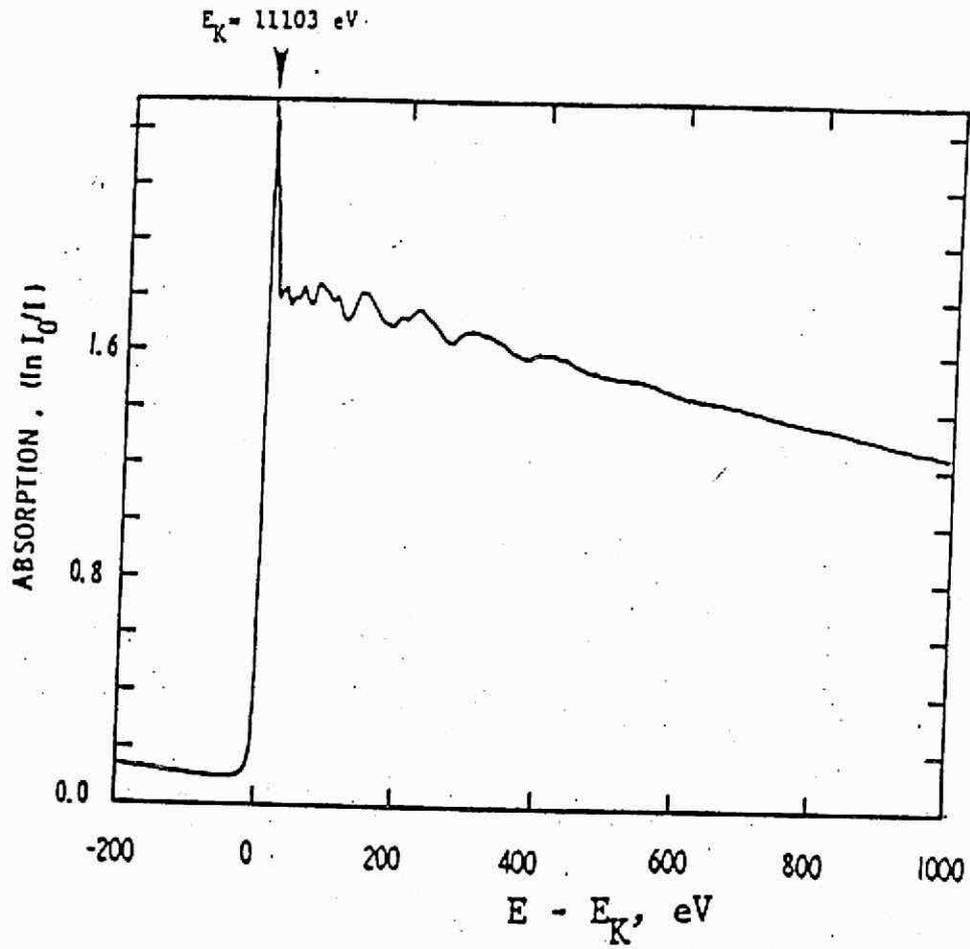
Cu



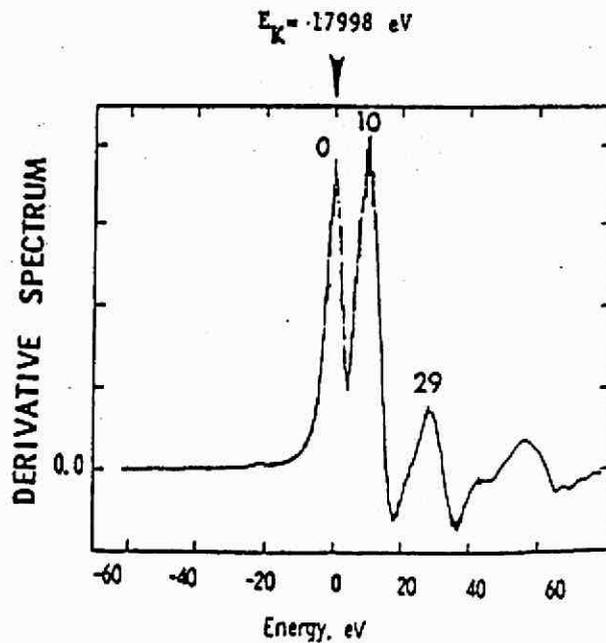
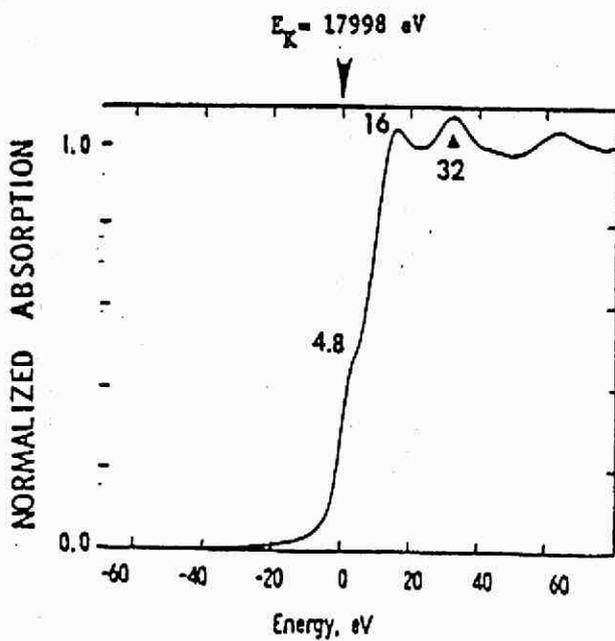
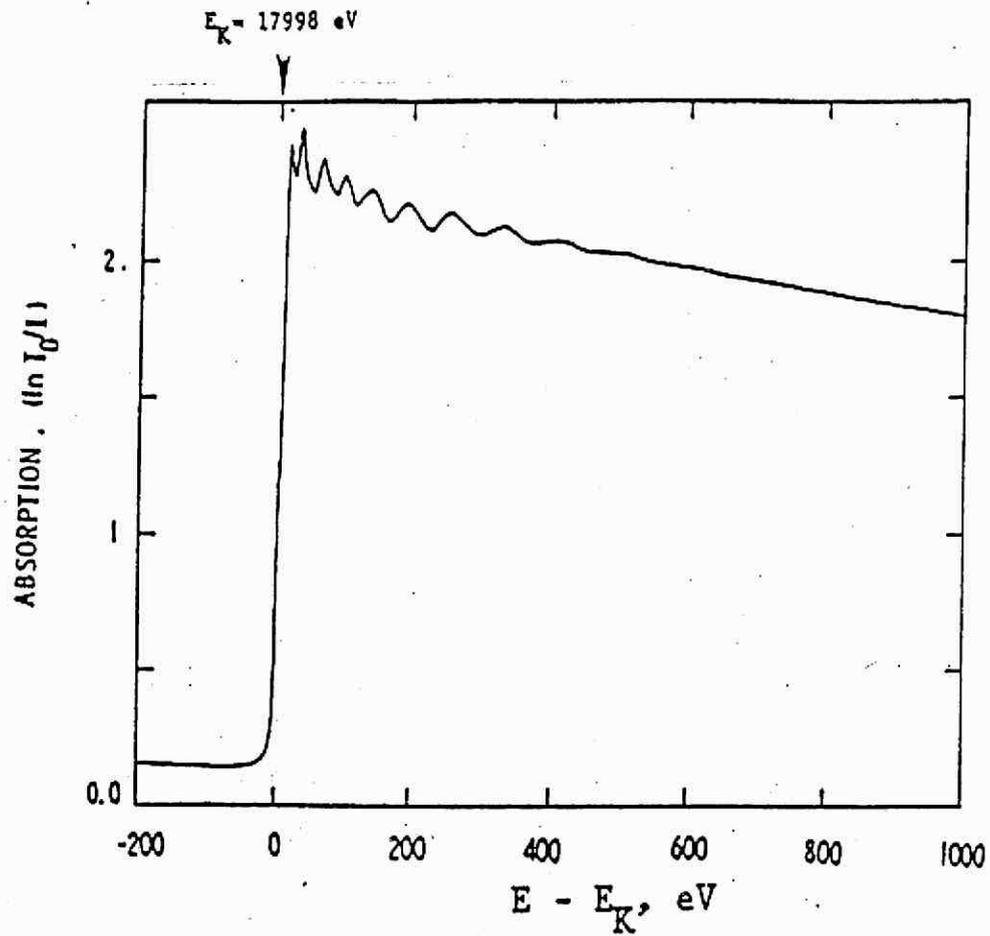
Zn



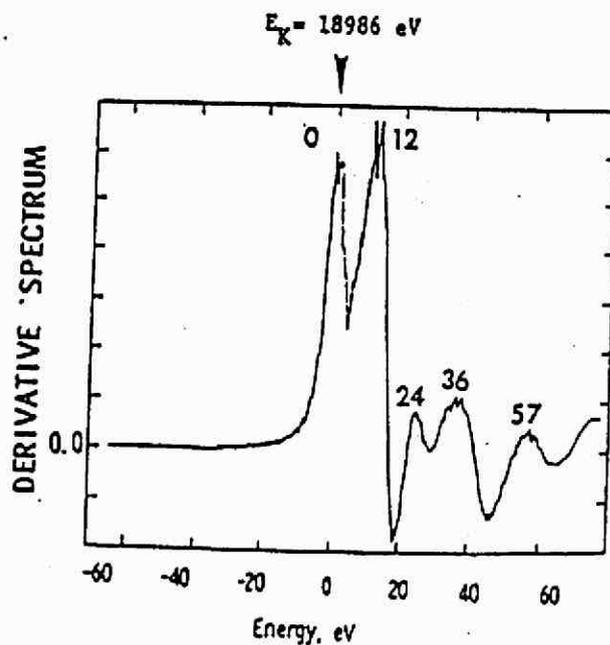
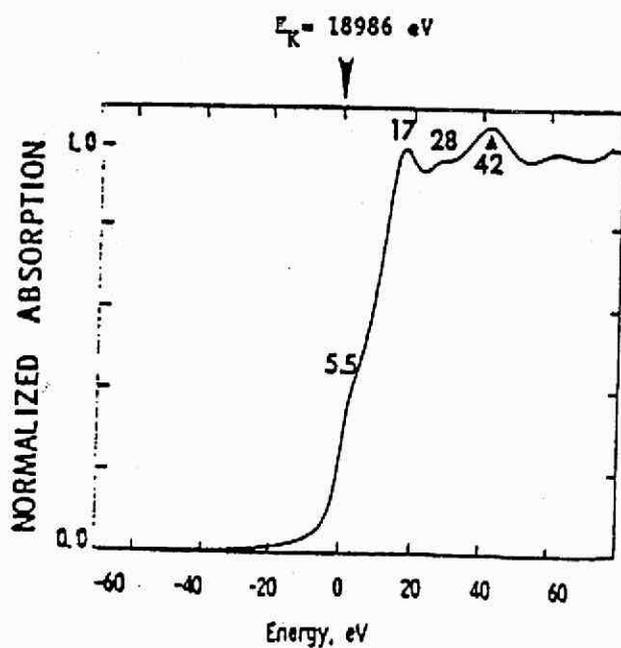
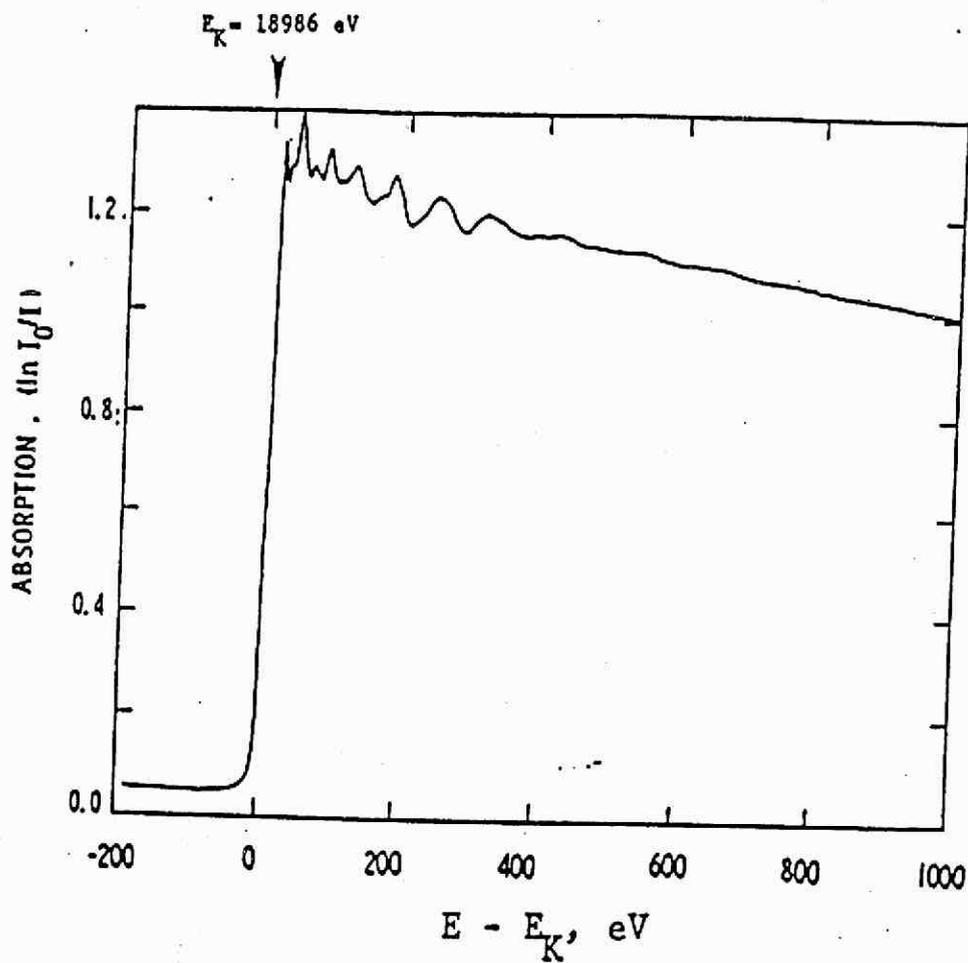
Ge



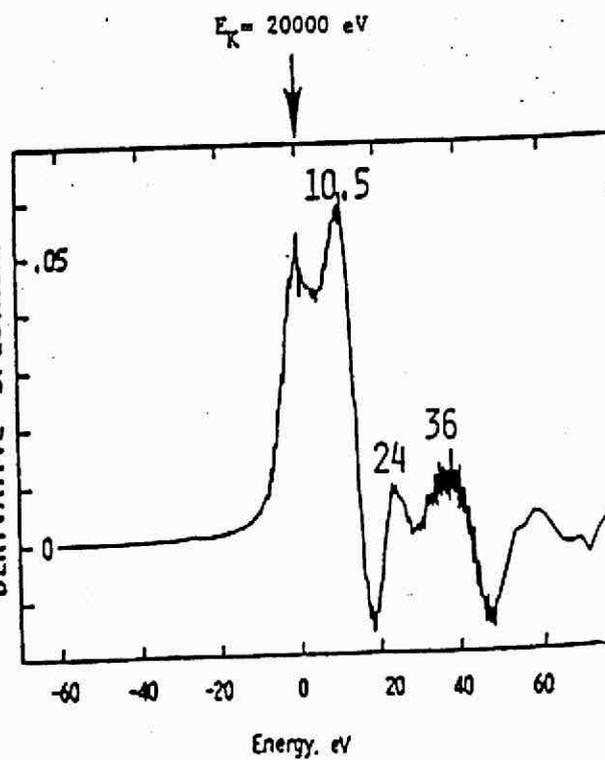
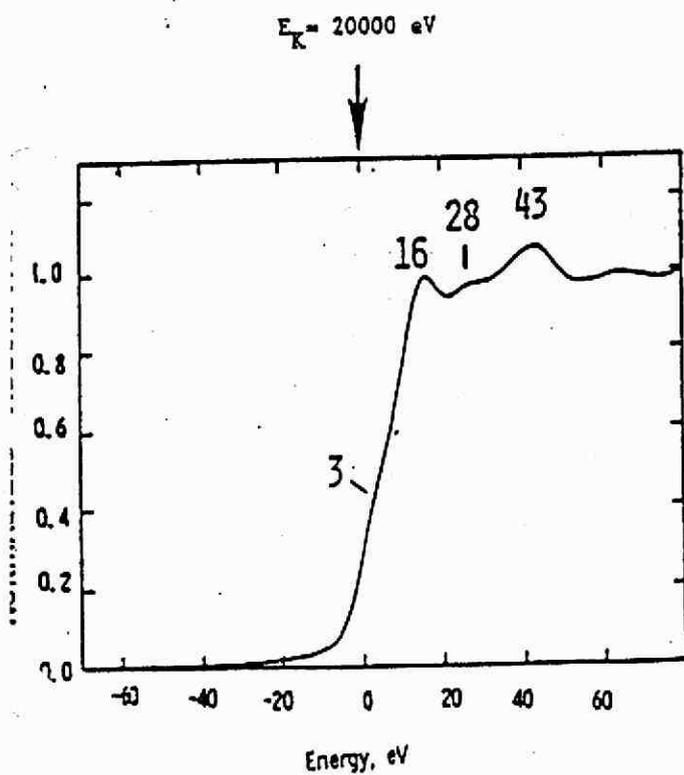
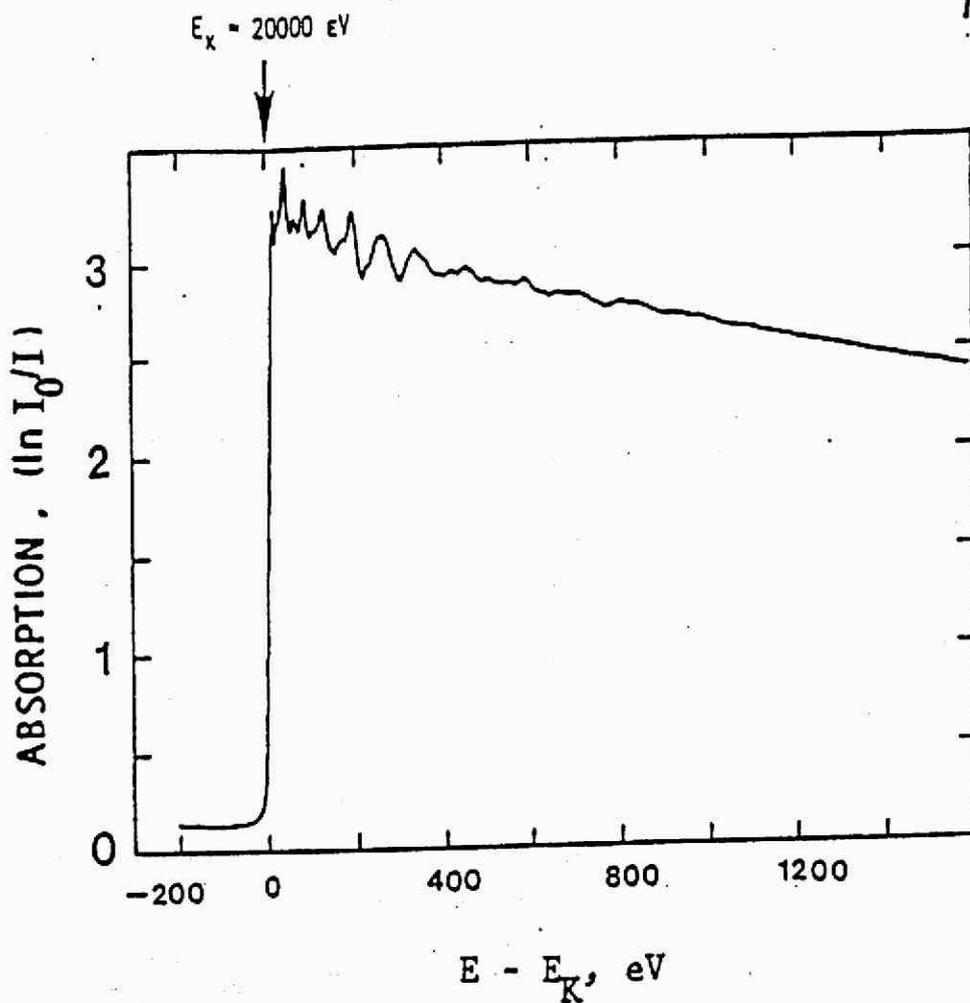
Zr



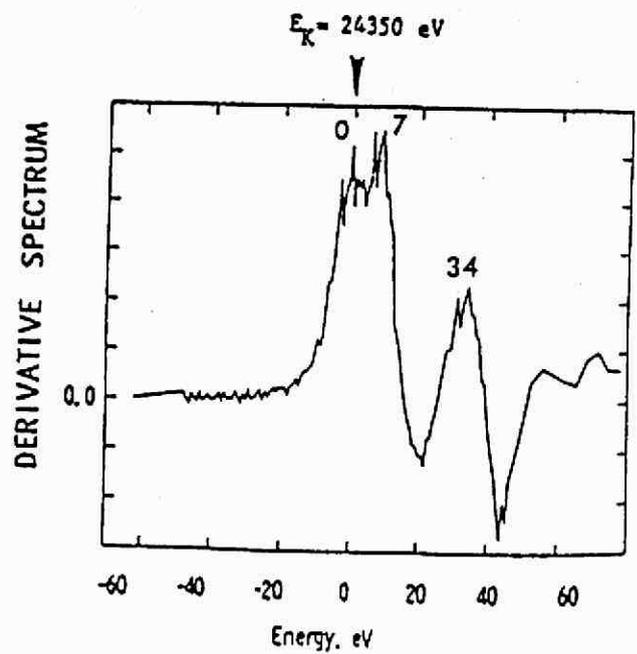
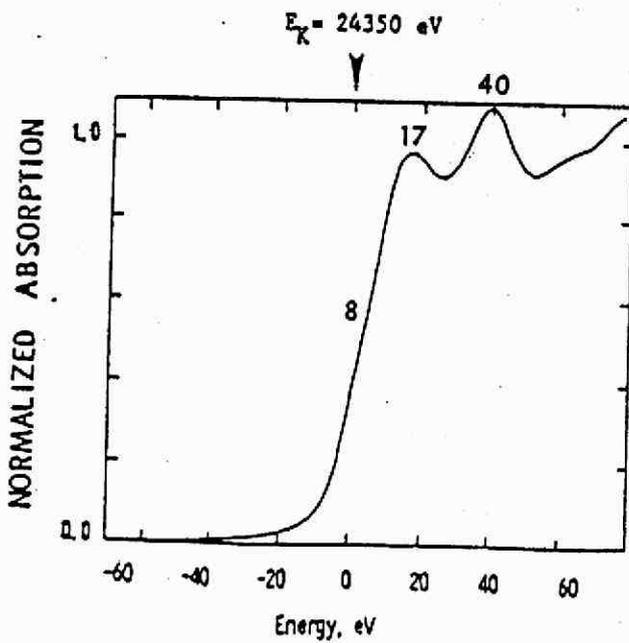
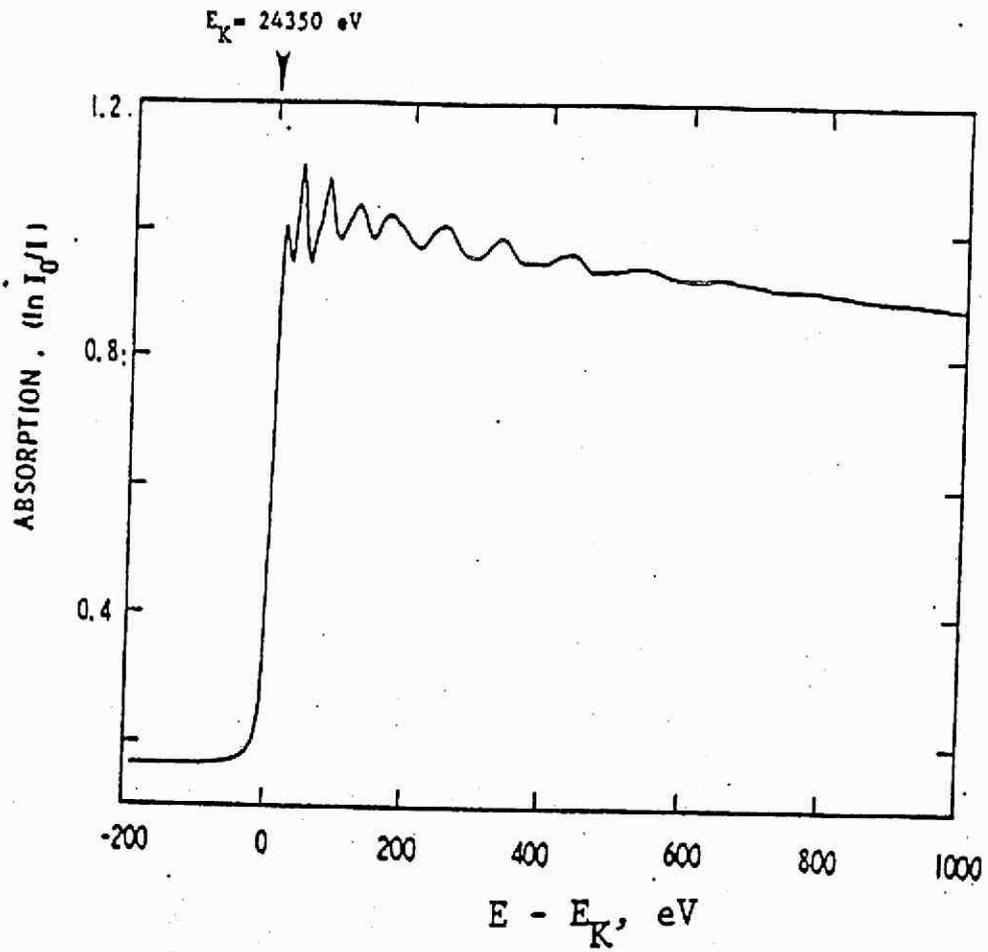
Nb



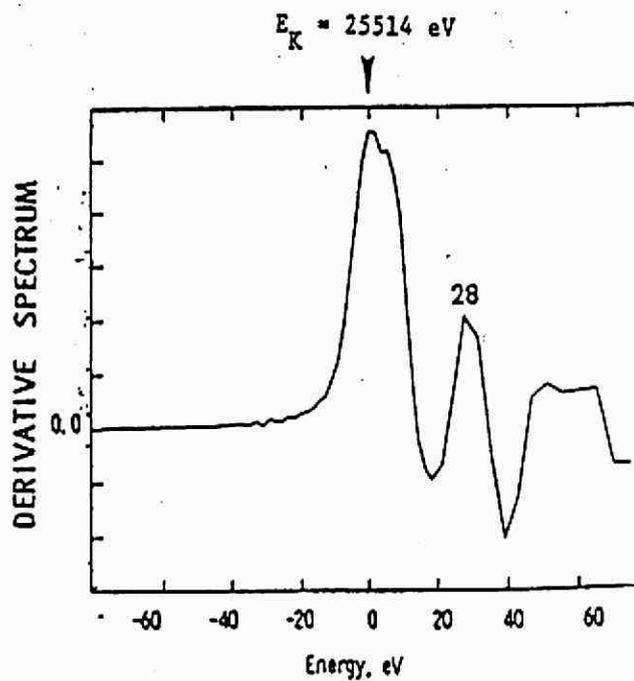
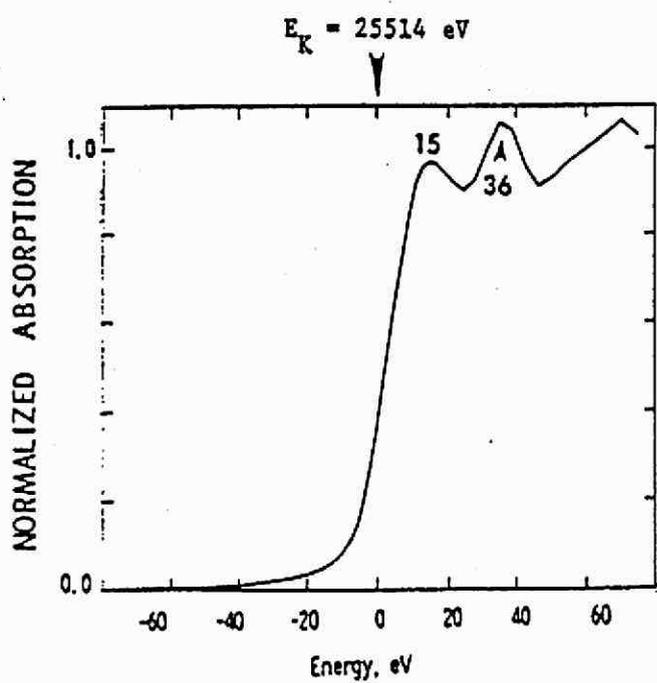
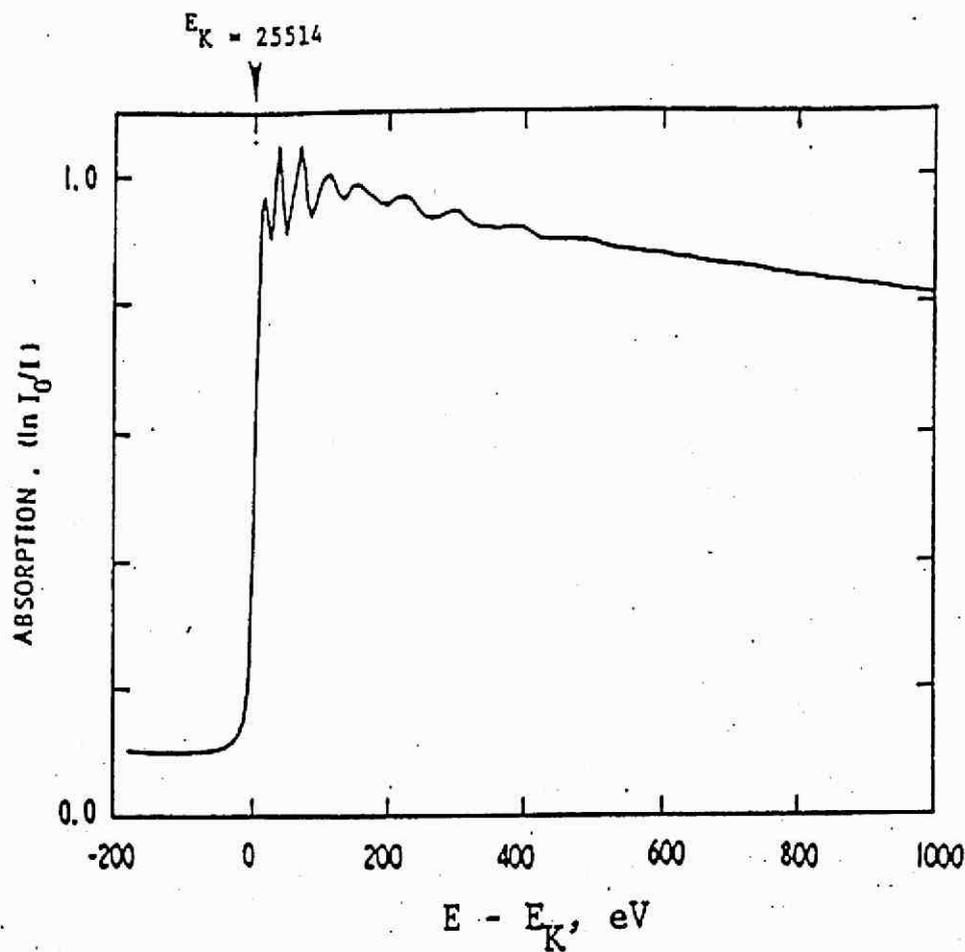
Mo



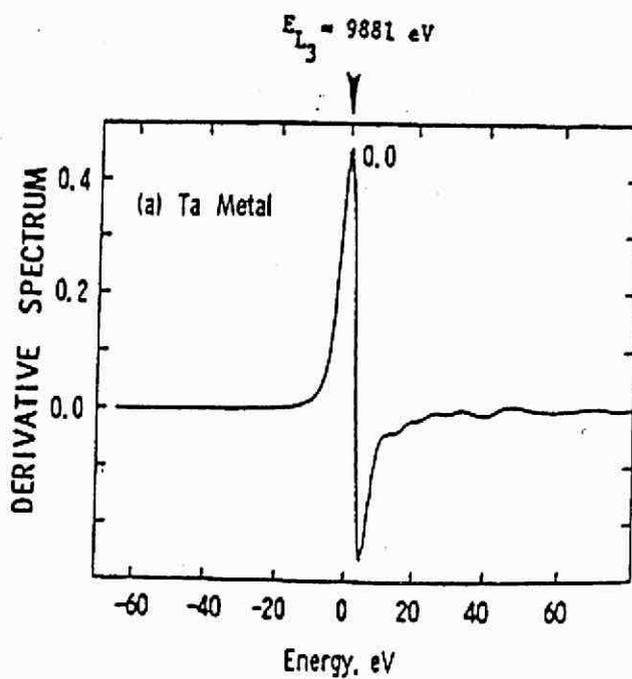
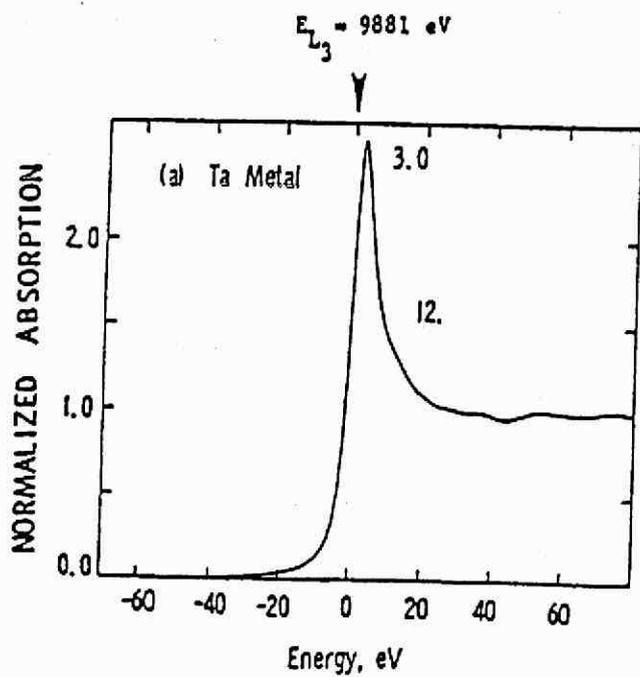
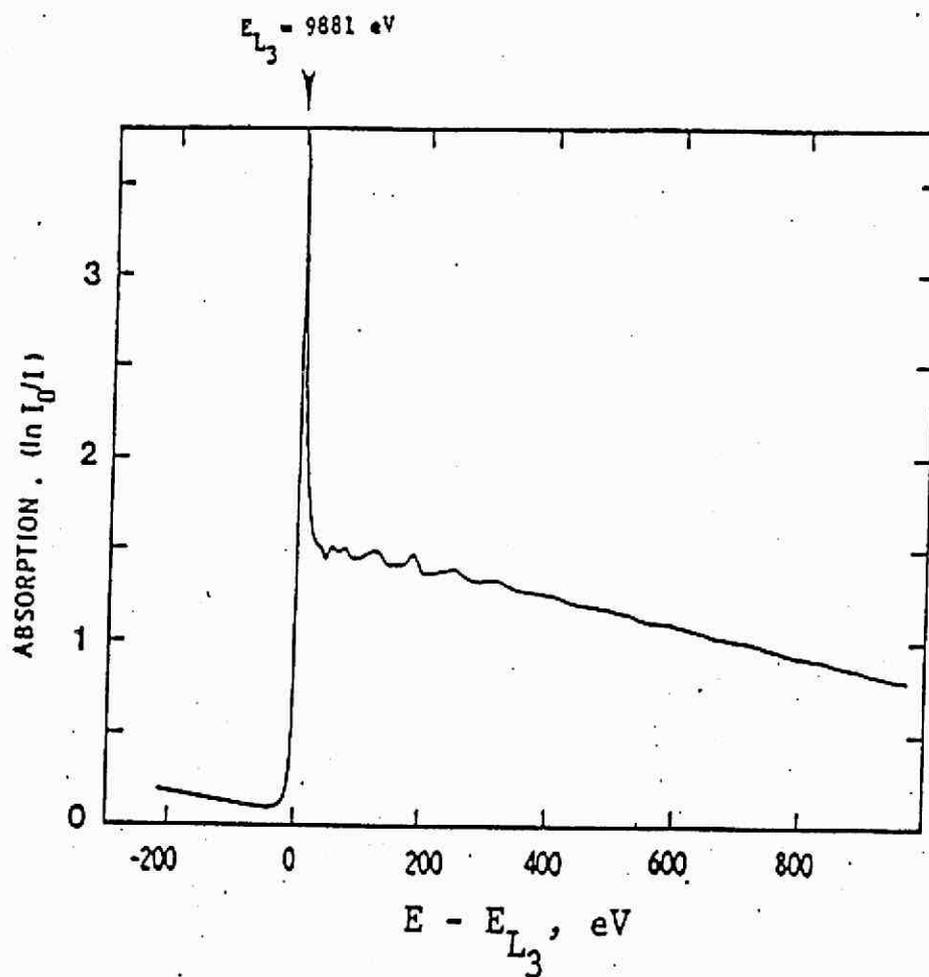
Pd



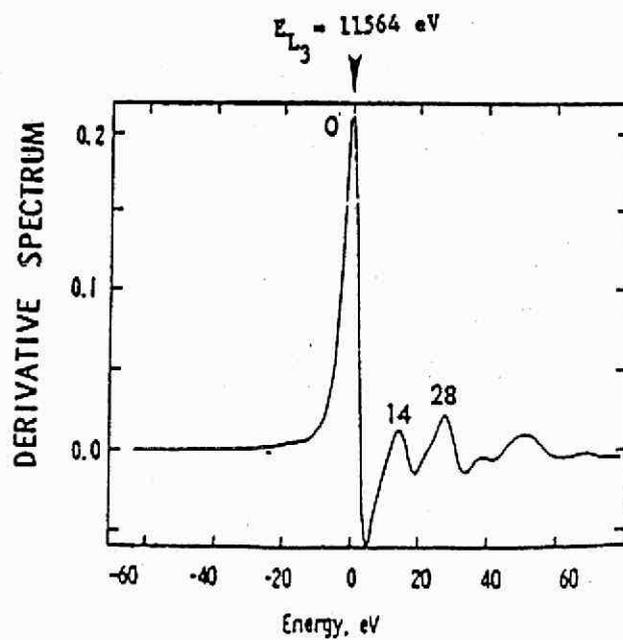
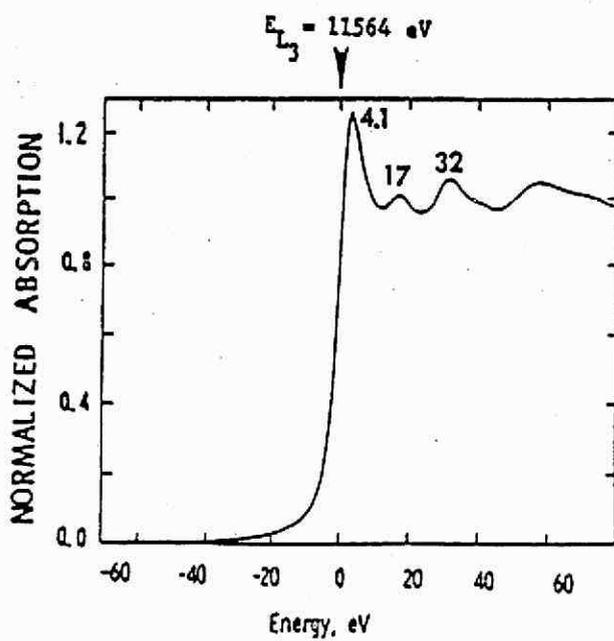
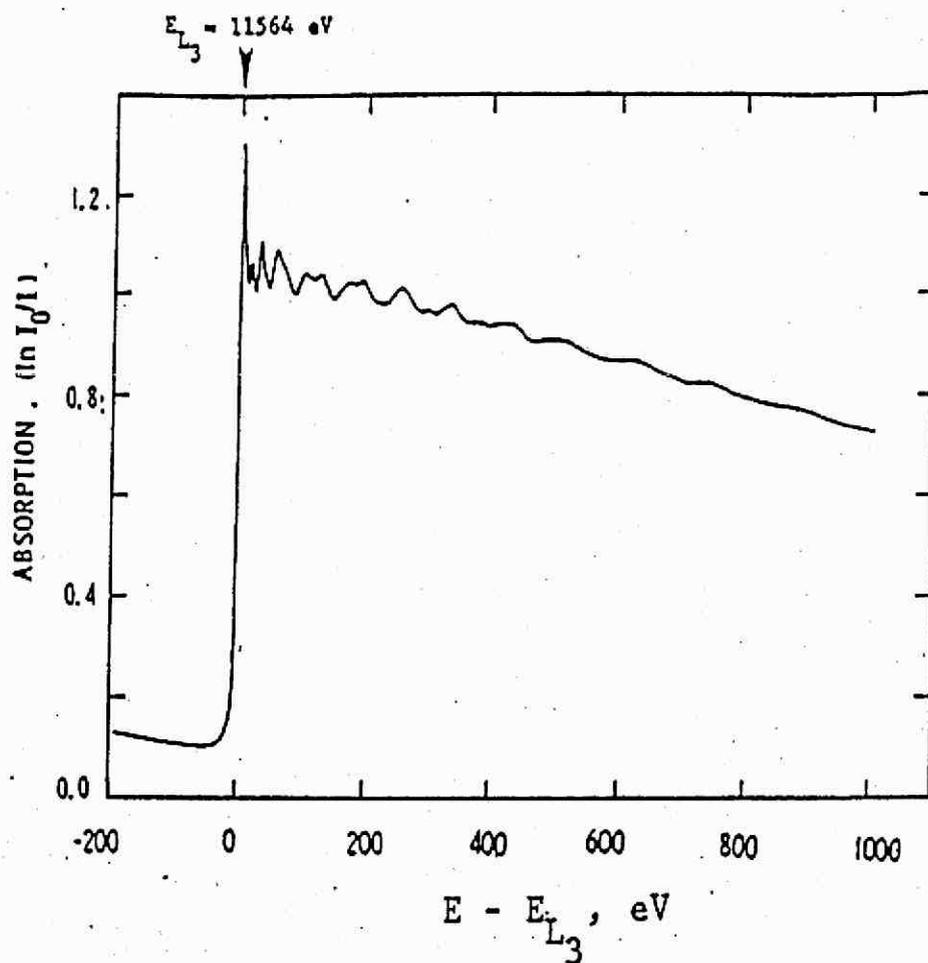
Ag



Ta



Pt



Au

