

BRAUER

X25

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 1 mm 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.

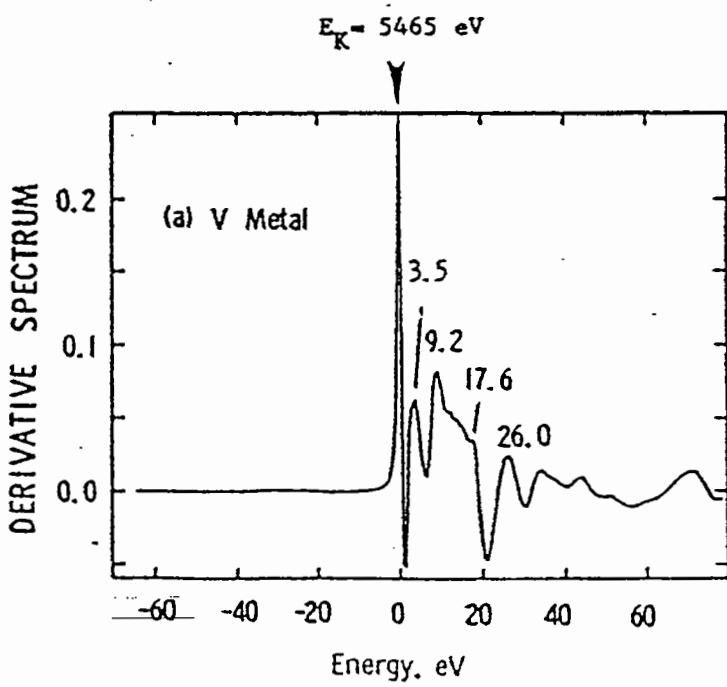
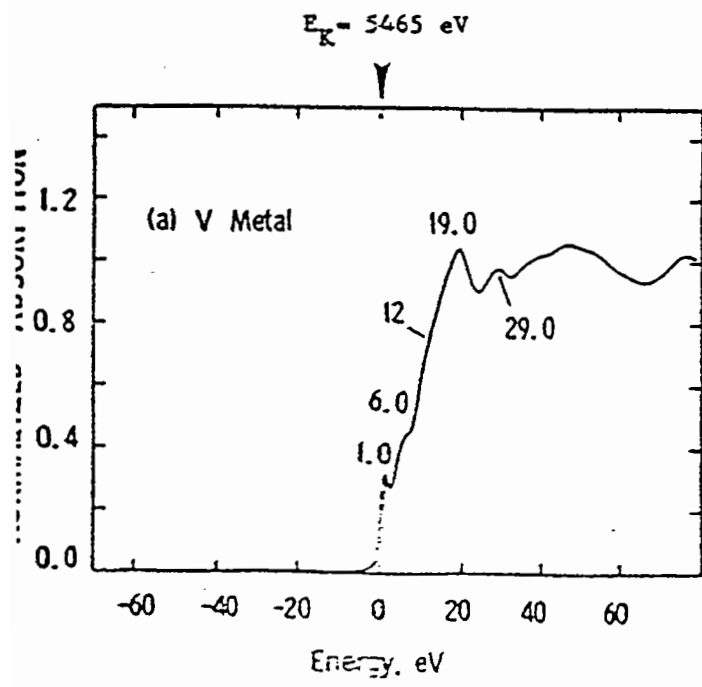
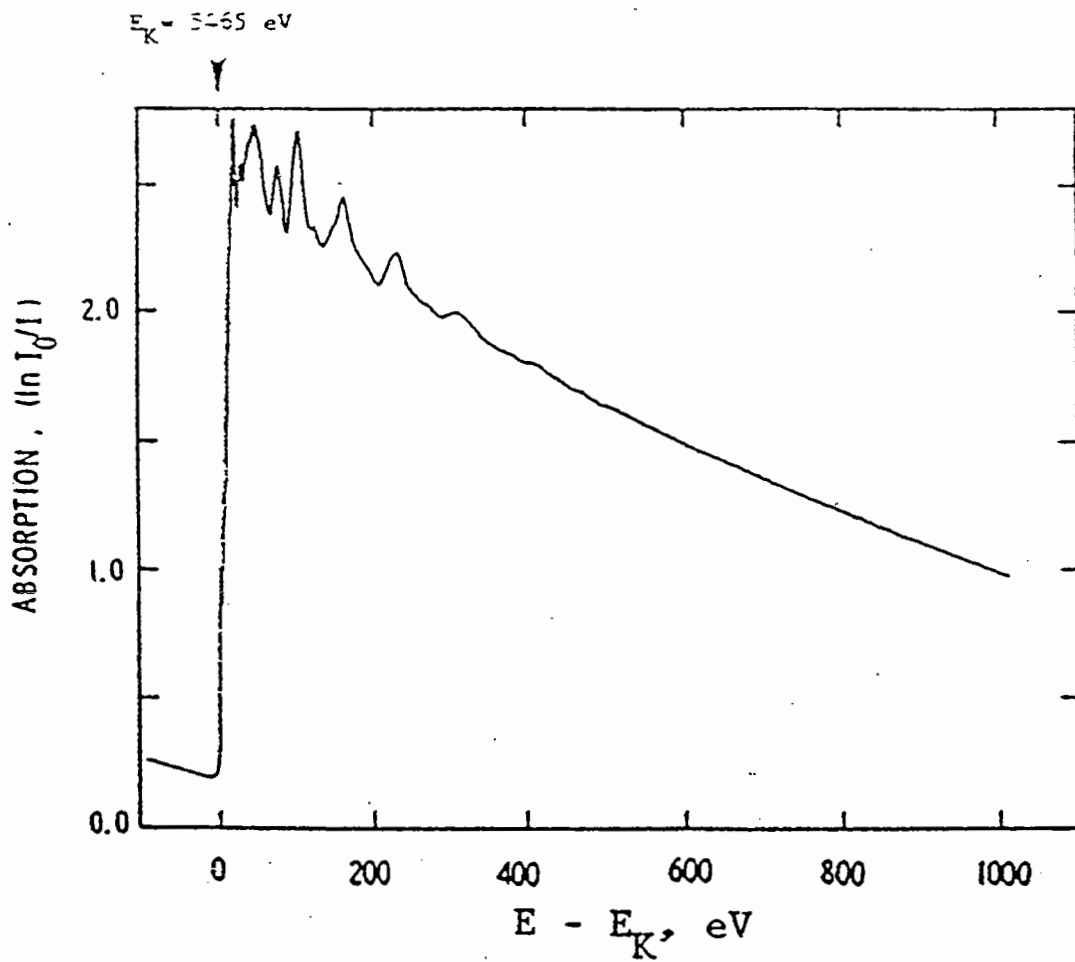
Element: Ti V Cr Mn Fe Co Ni Cu Zn Ge

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

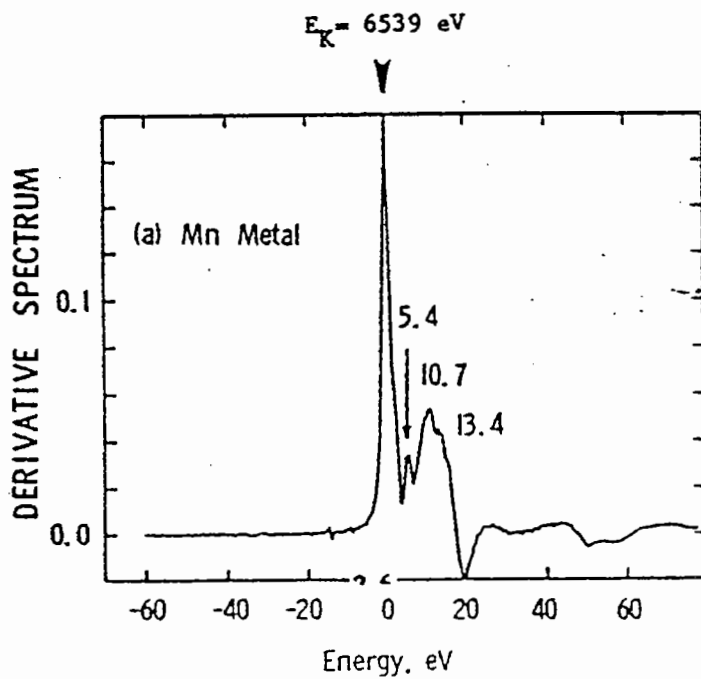
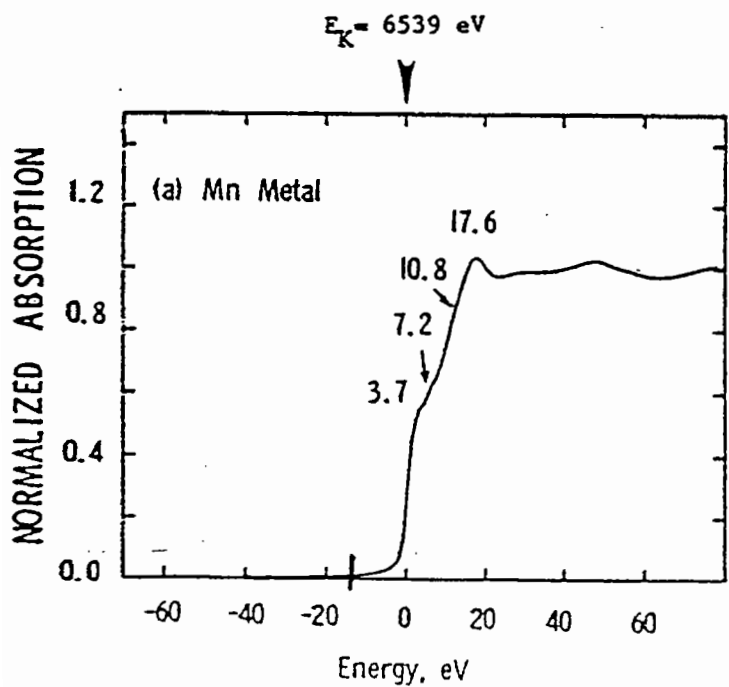
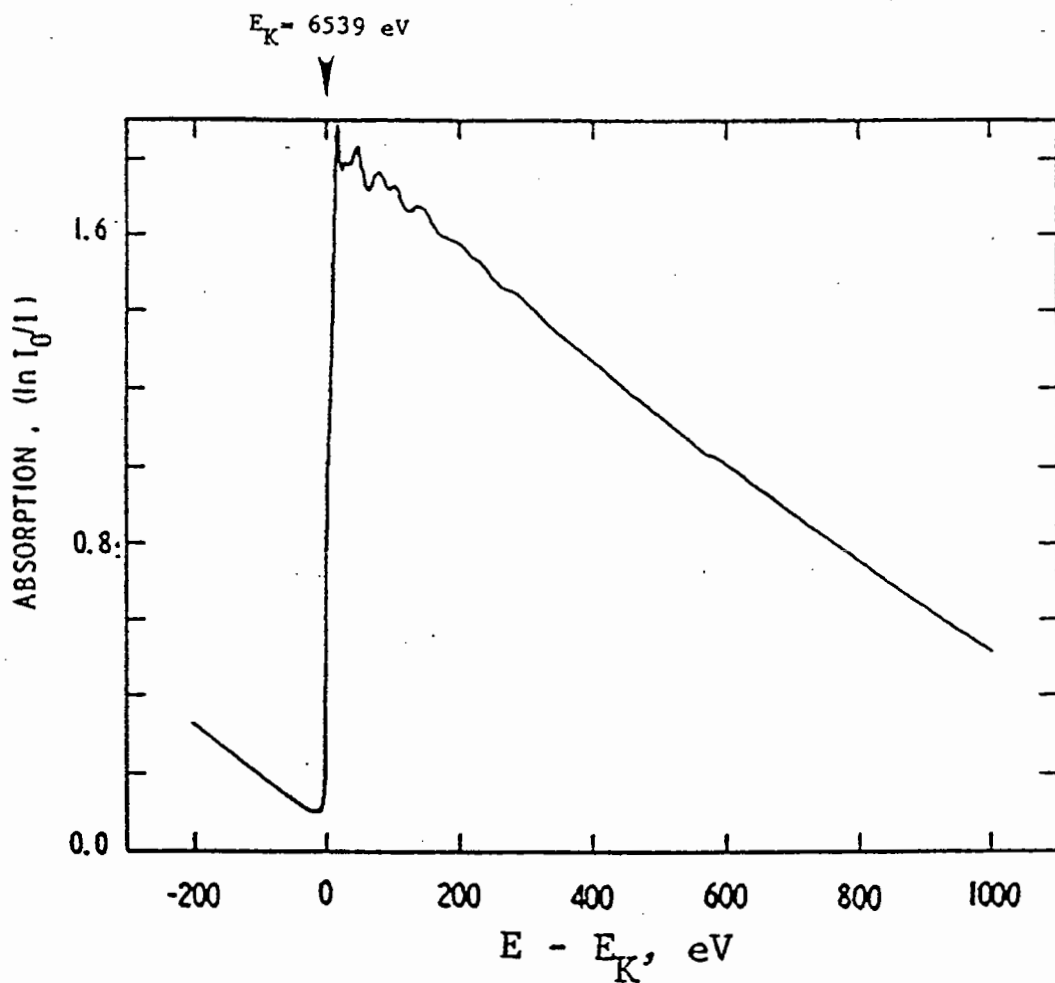
Element: Zr Nb Mo Pd Ag Ta Pt Au Pb

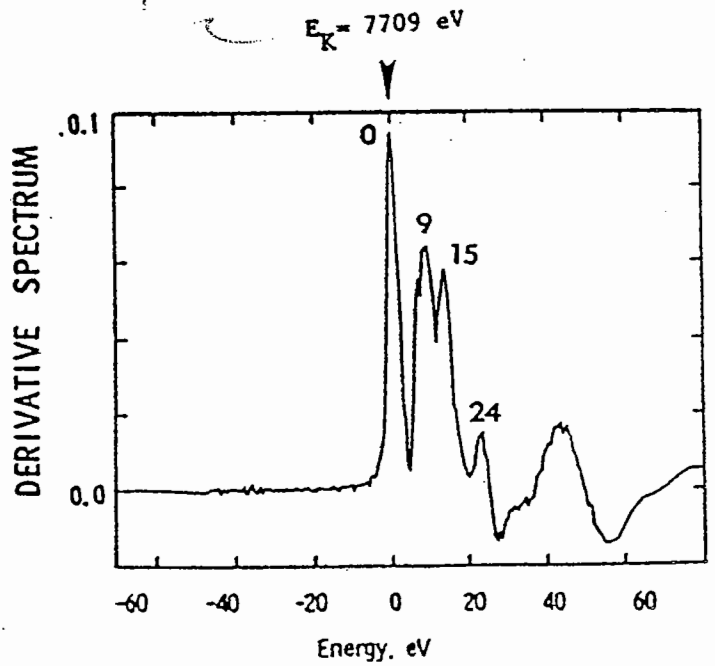
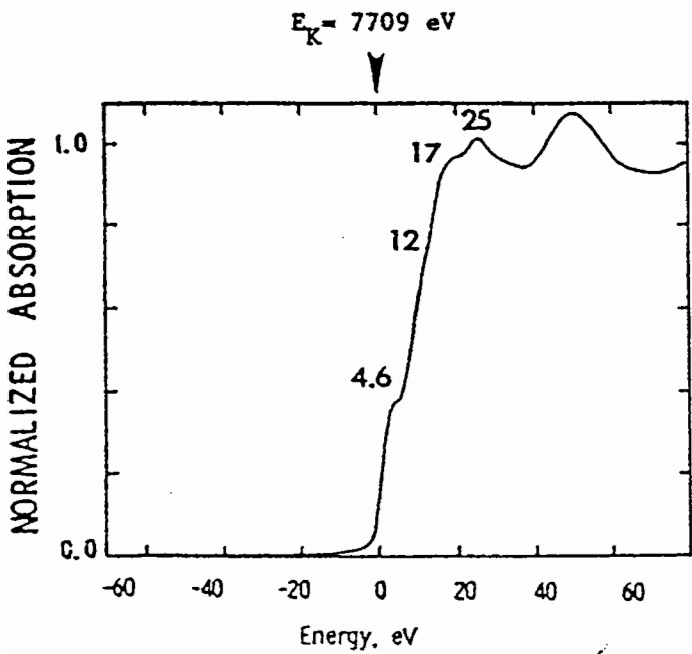
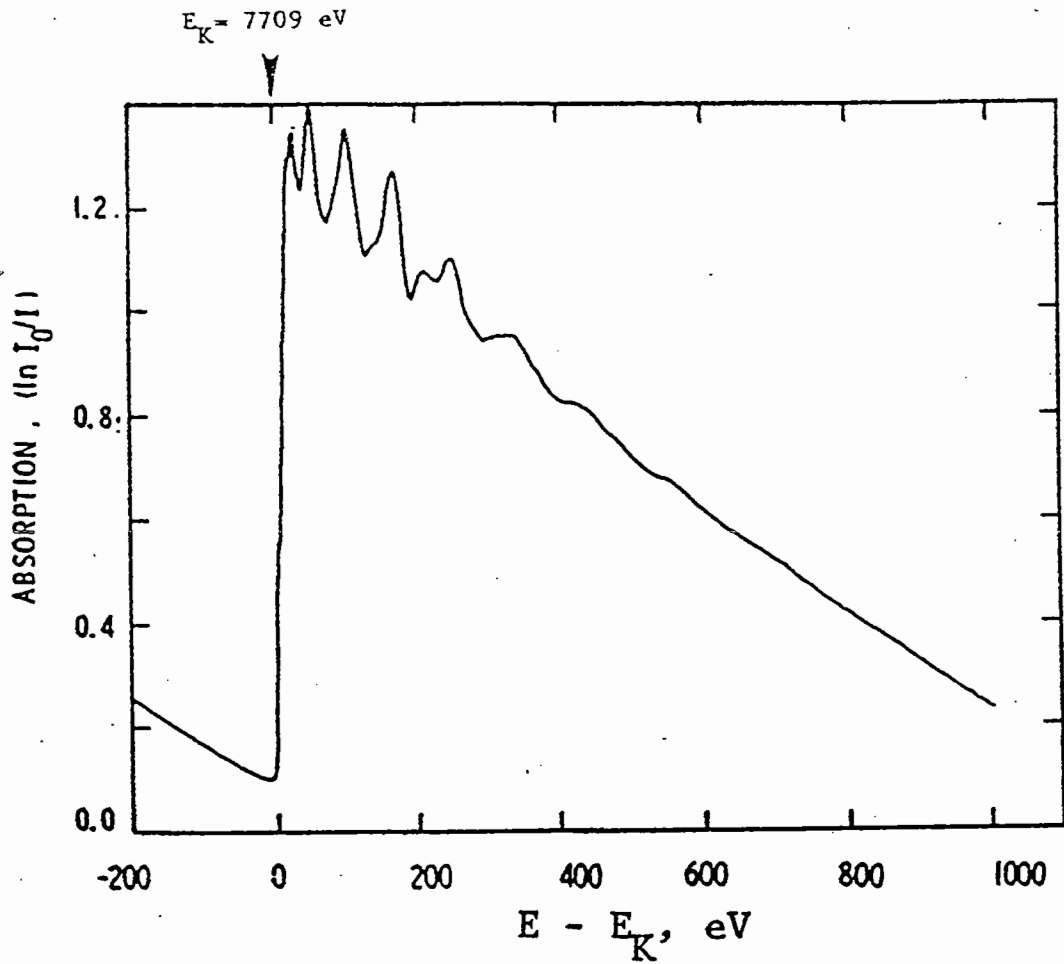
Page: 11 12 13 14 15 16 17 18 19

238
272

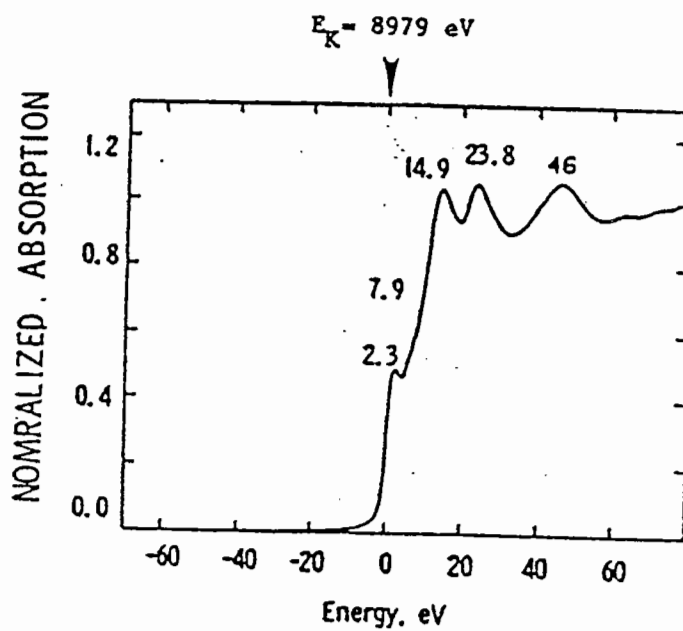
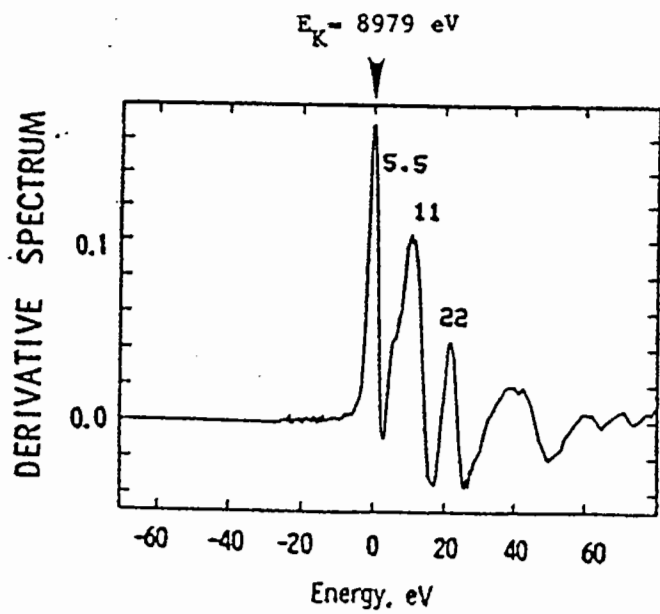
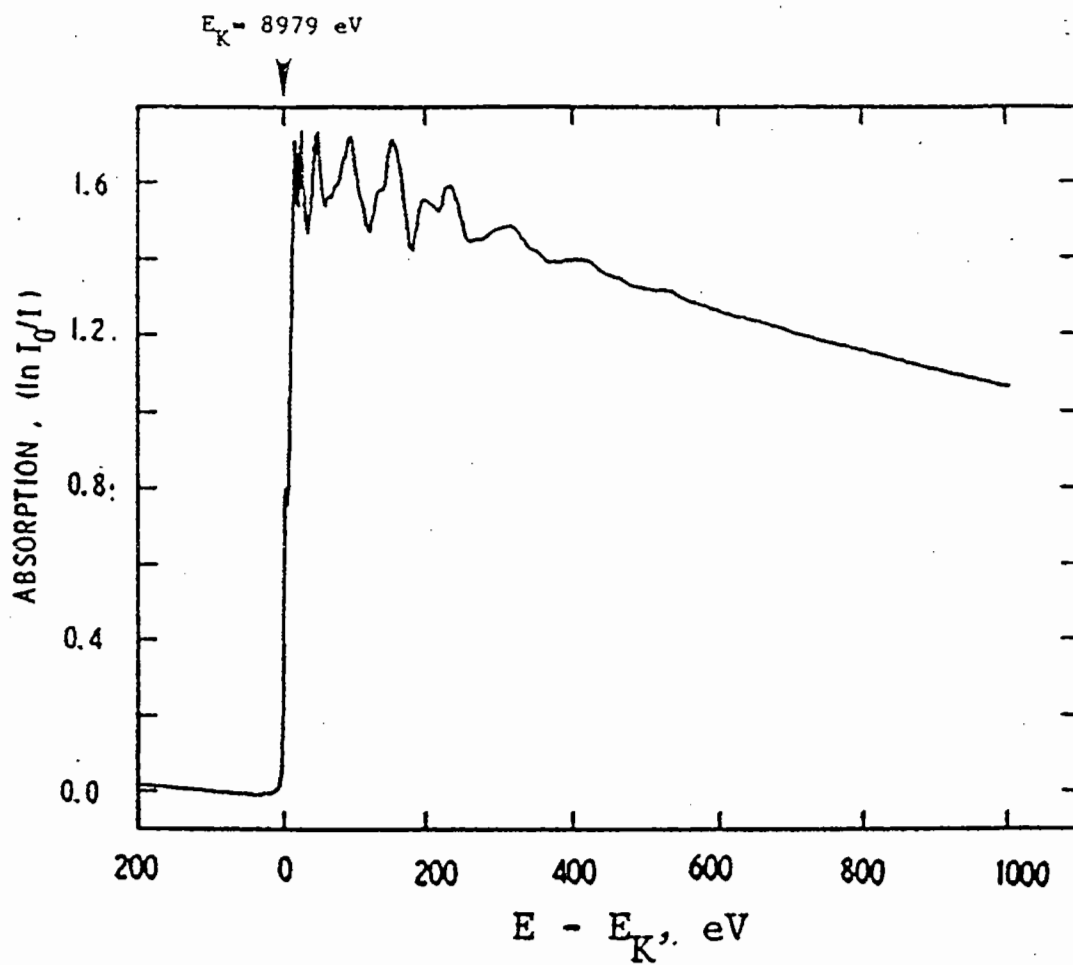


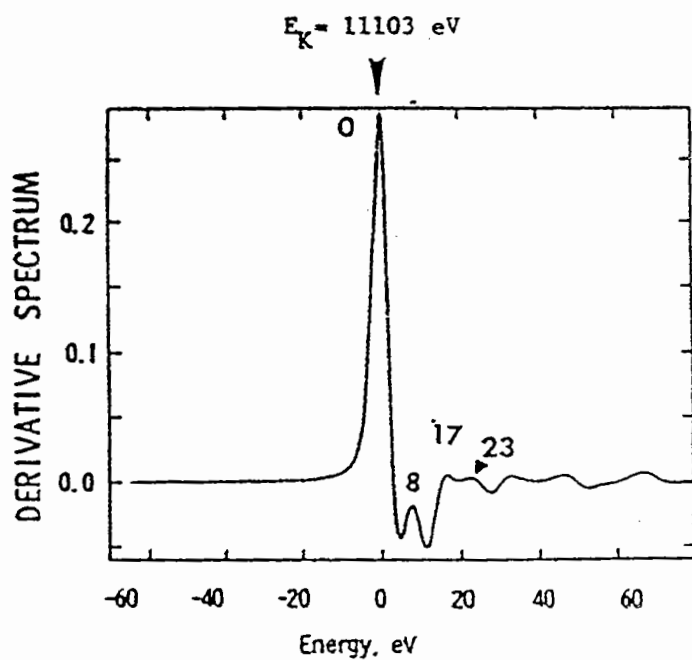
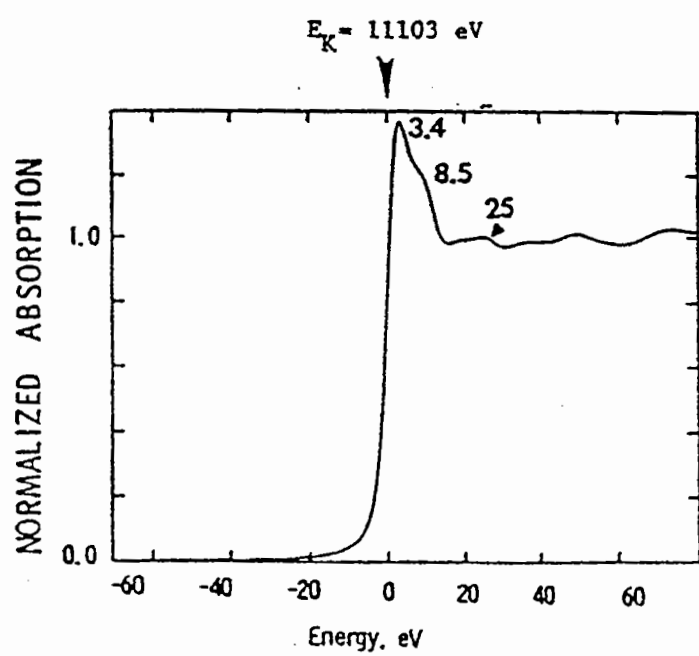
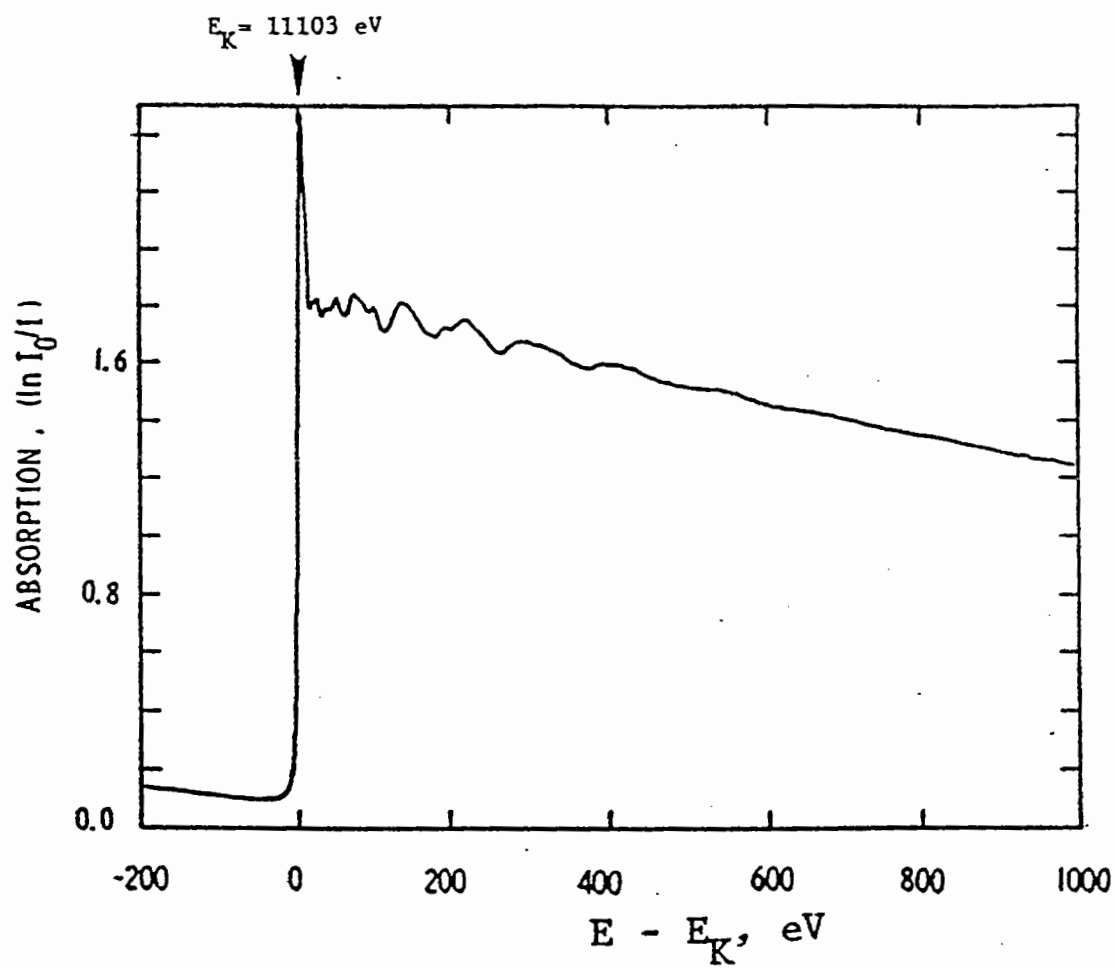
Mn



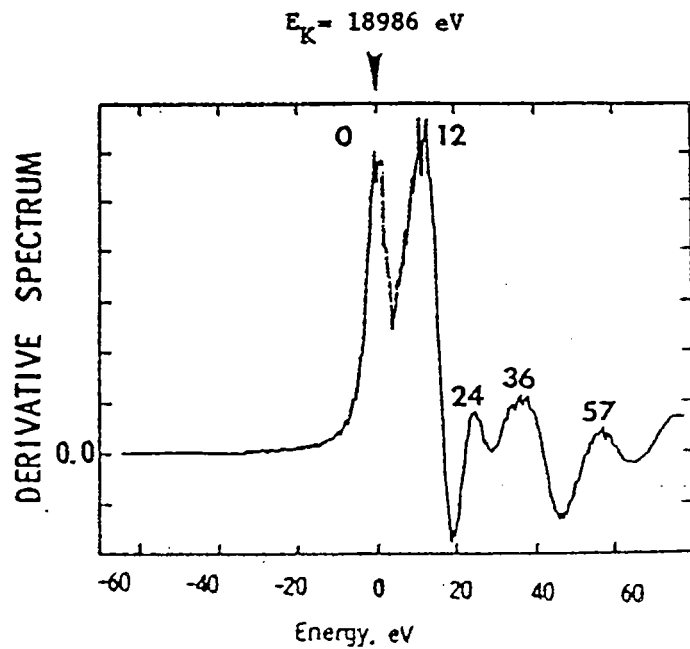
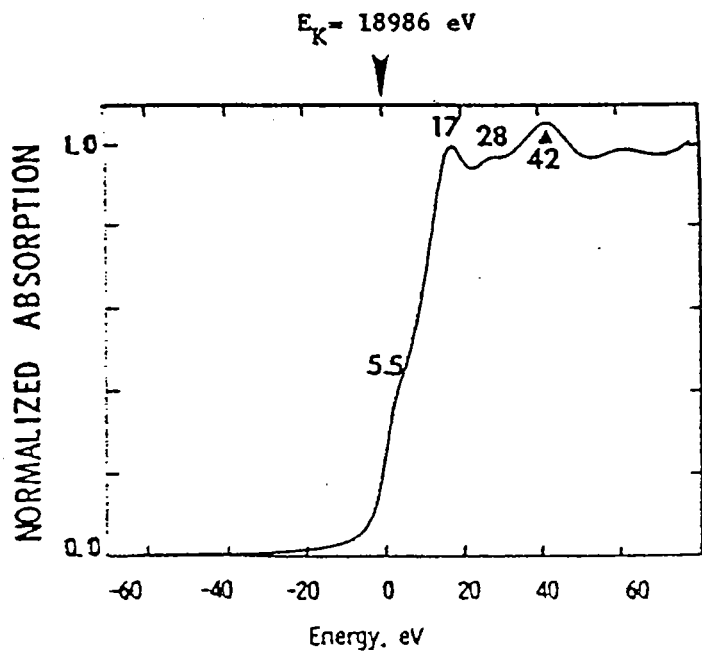
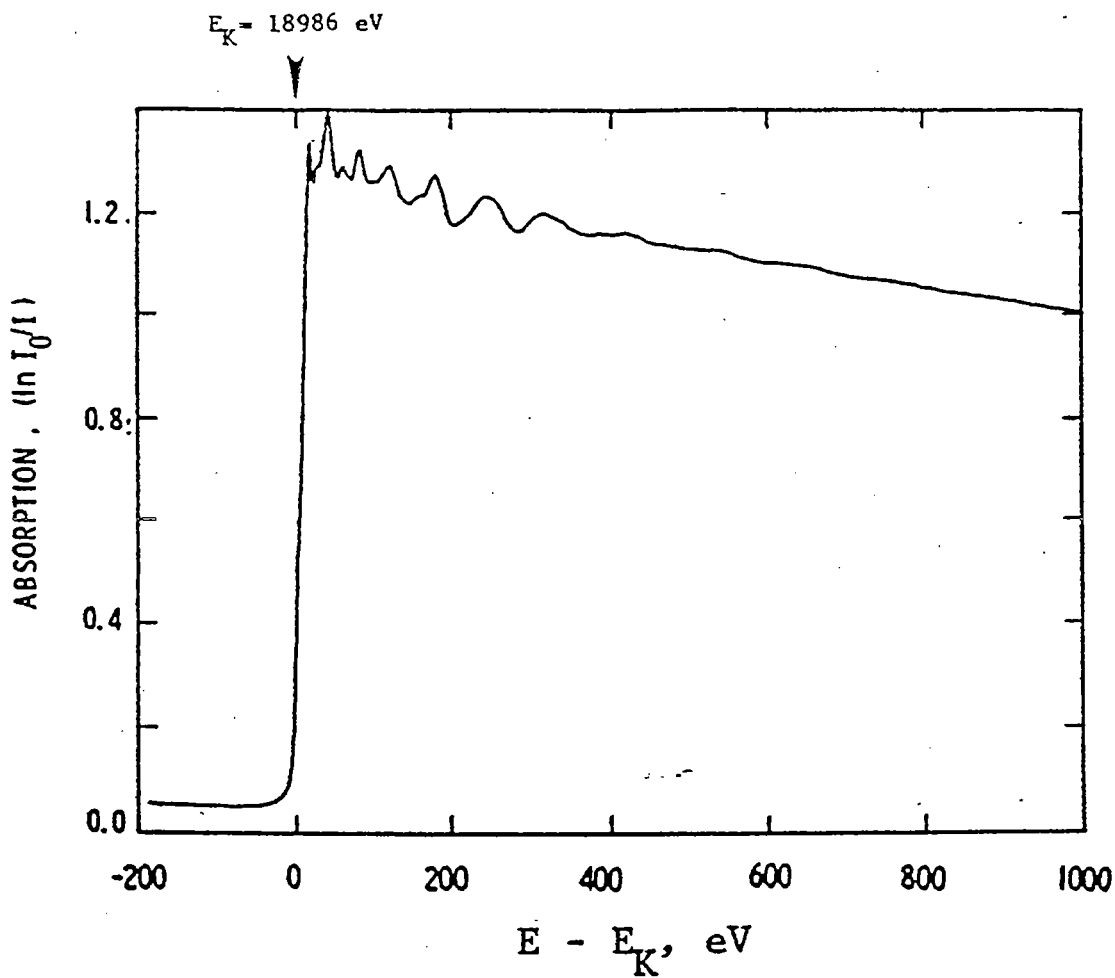


Cu

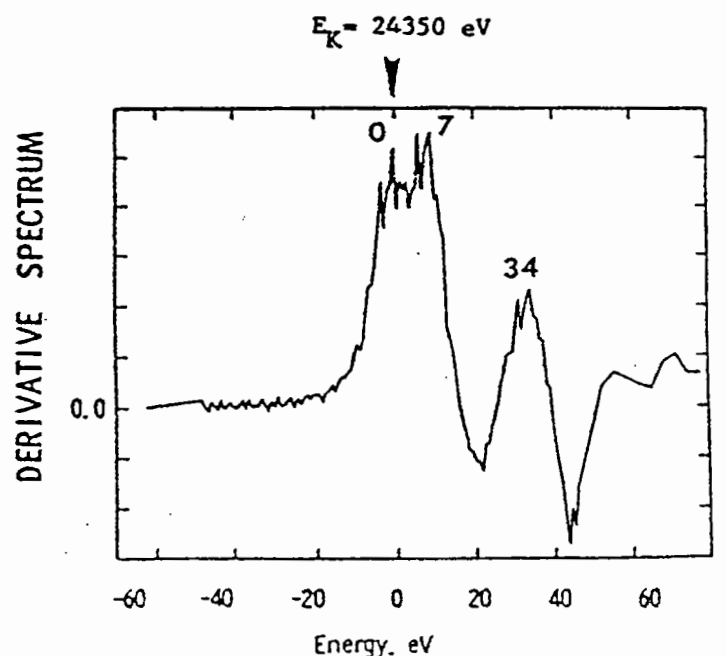
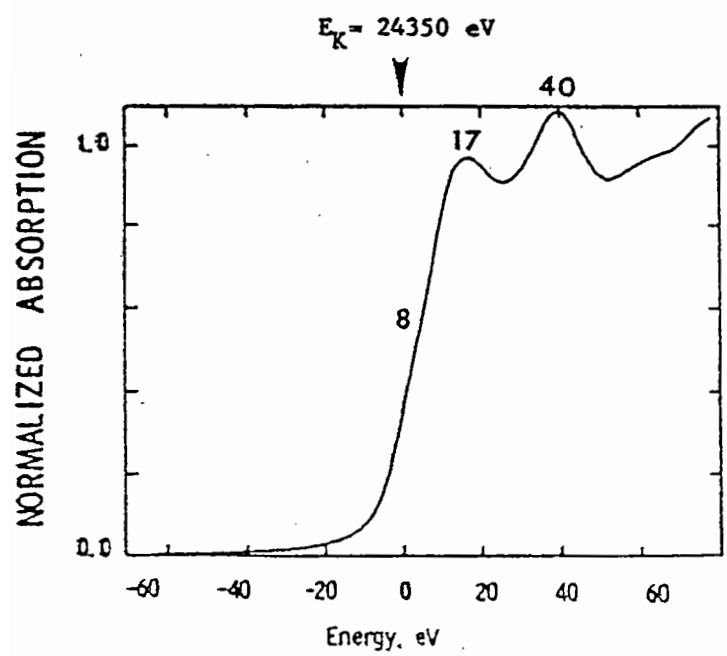
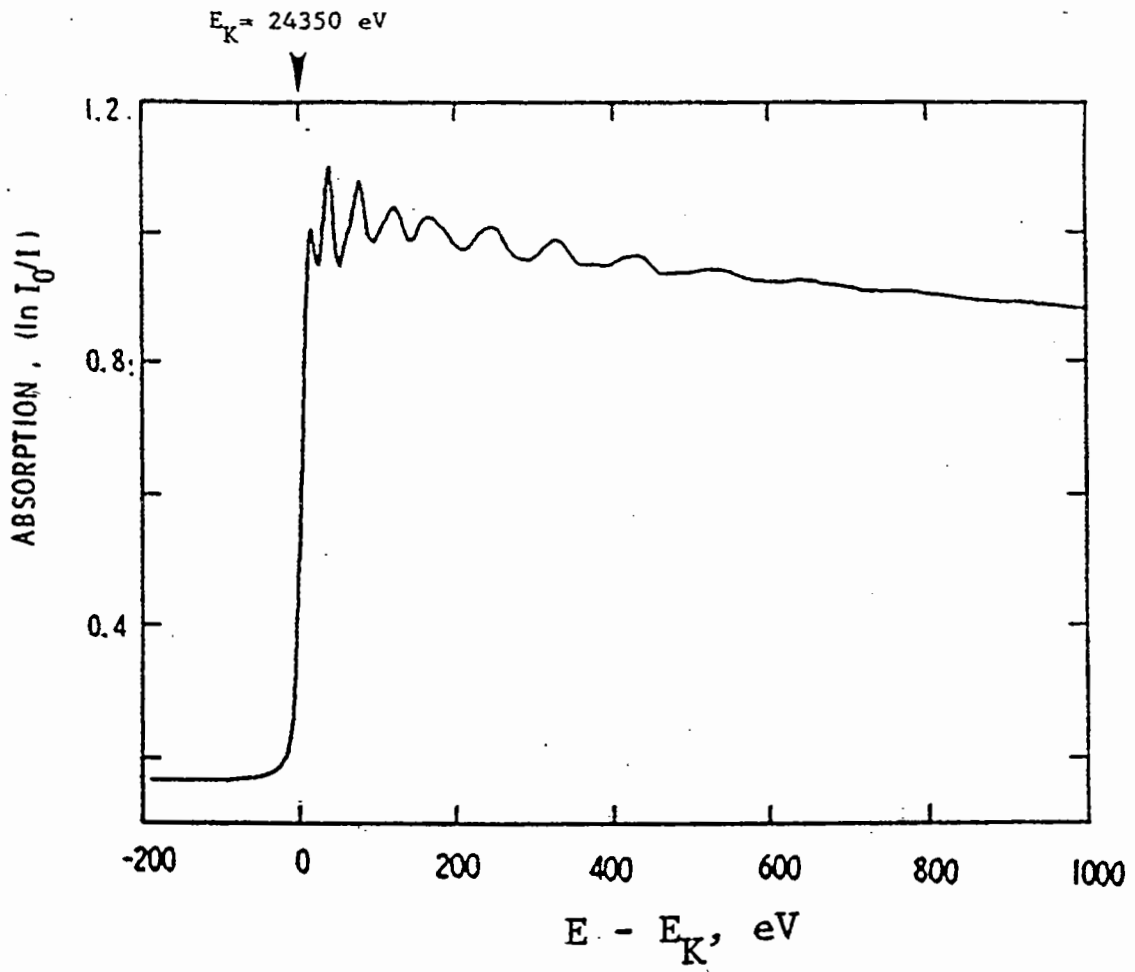




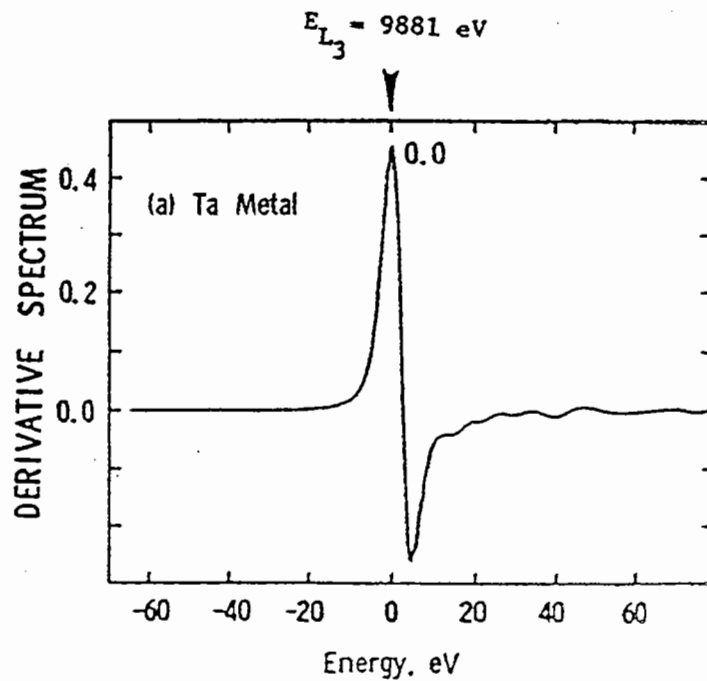
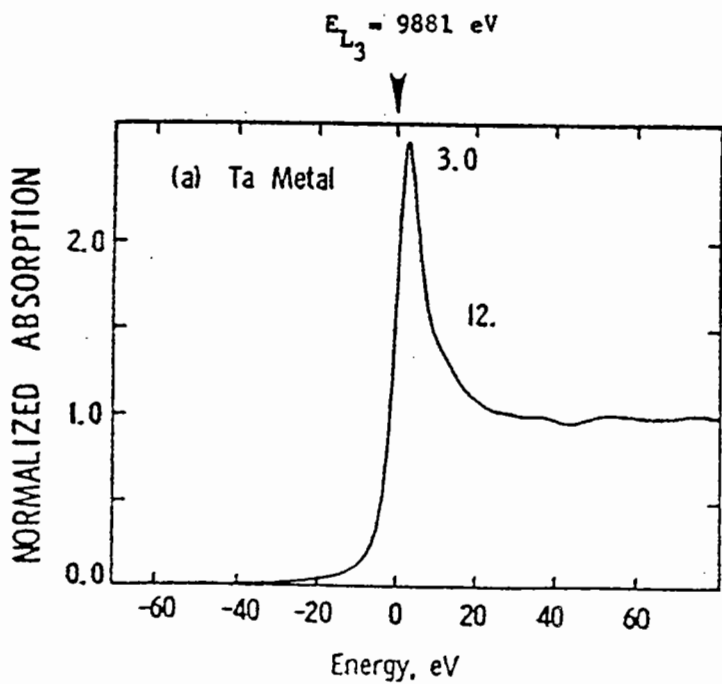
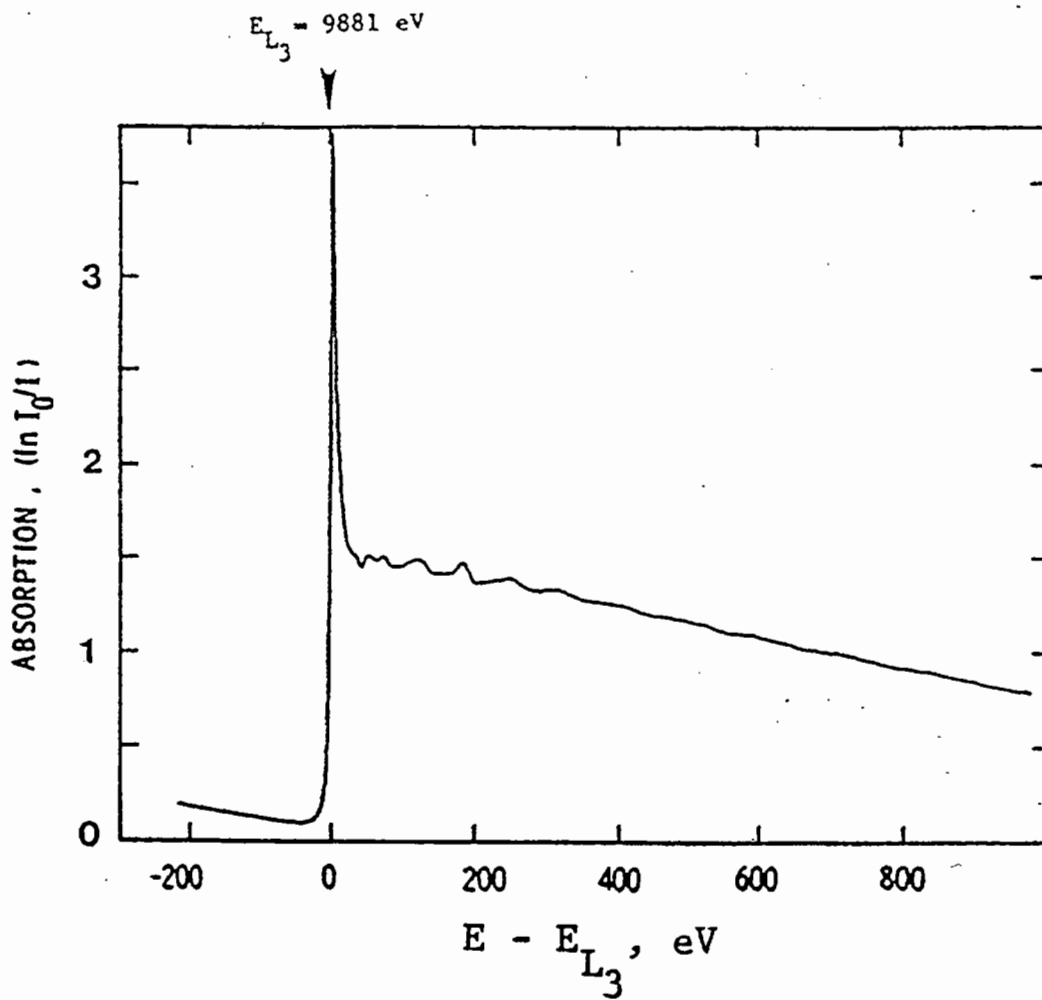
Nb



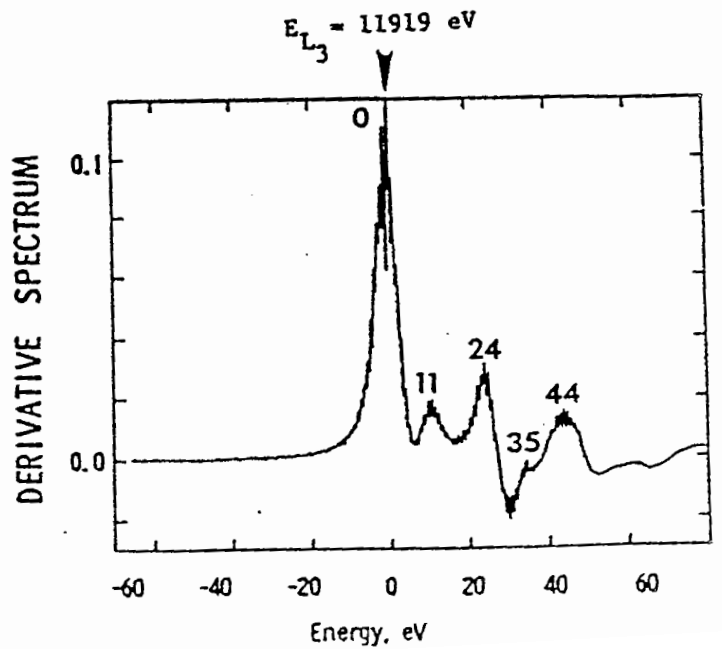
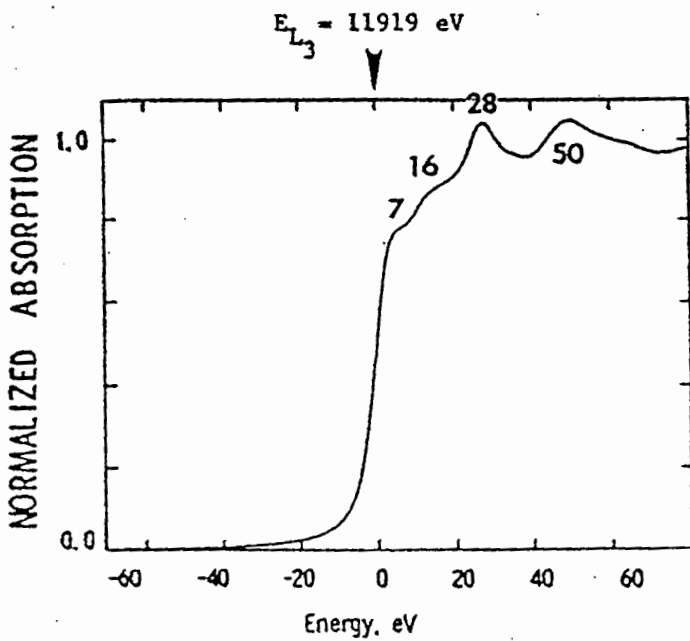
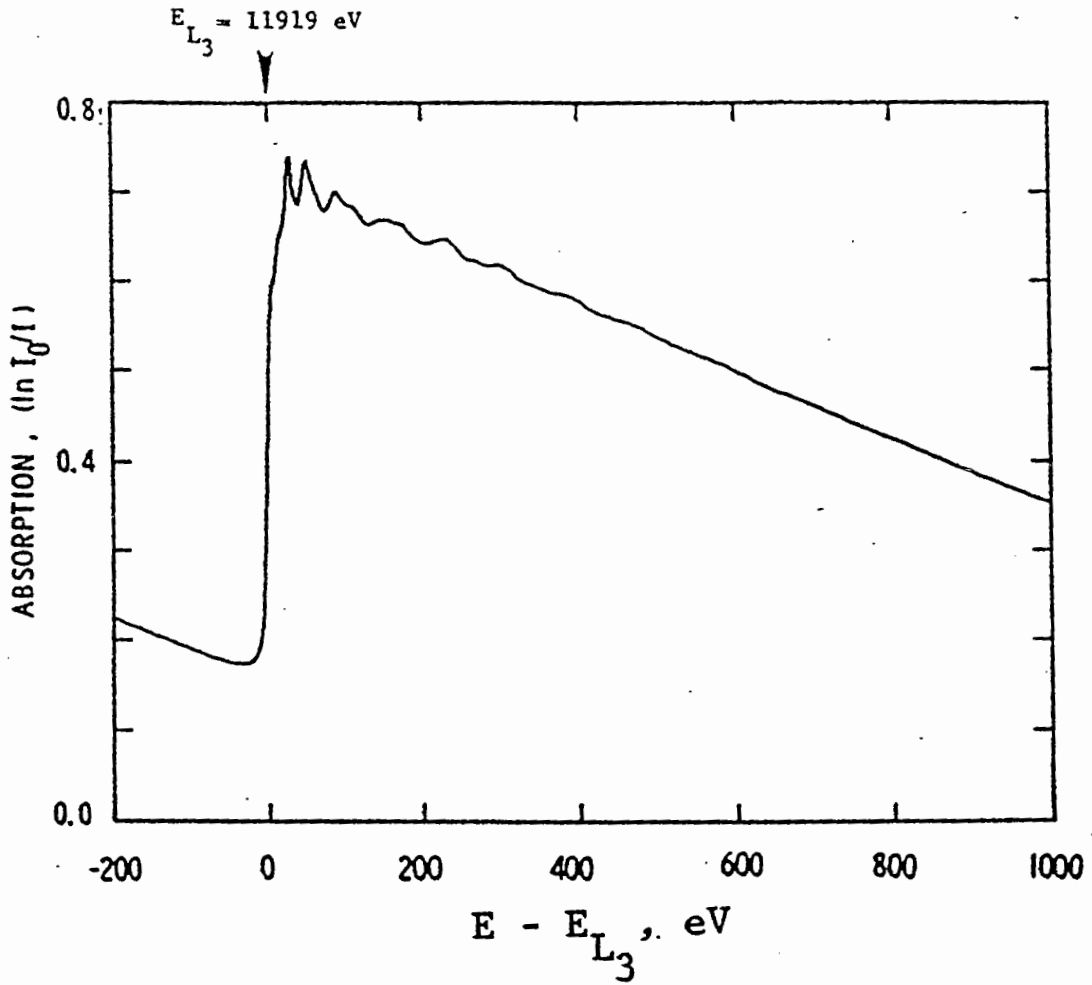
Pd



Ta



Au



BRAUER

X25

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 1 mm 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

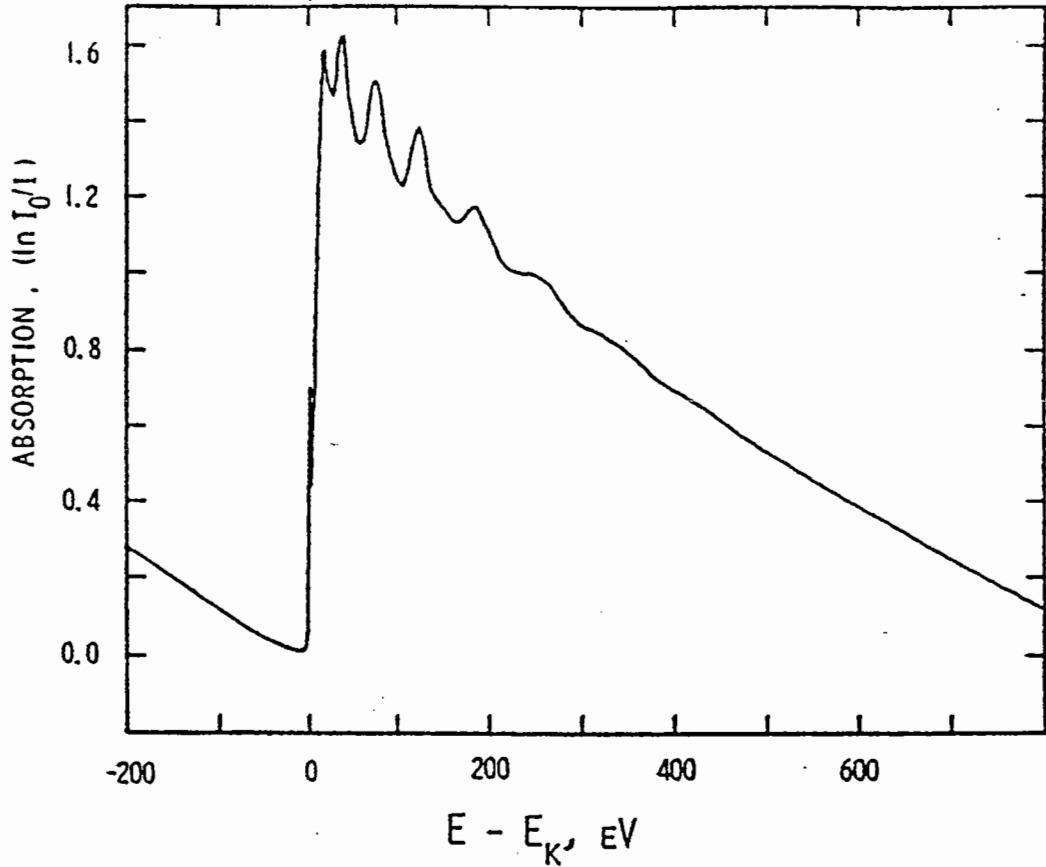
Element: Zr Nb Mo Pd Ag Ta Pt Au Pb

Page: 11 12 13 14 15 16 17 18 19

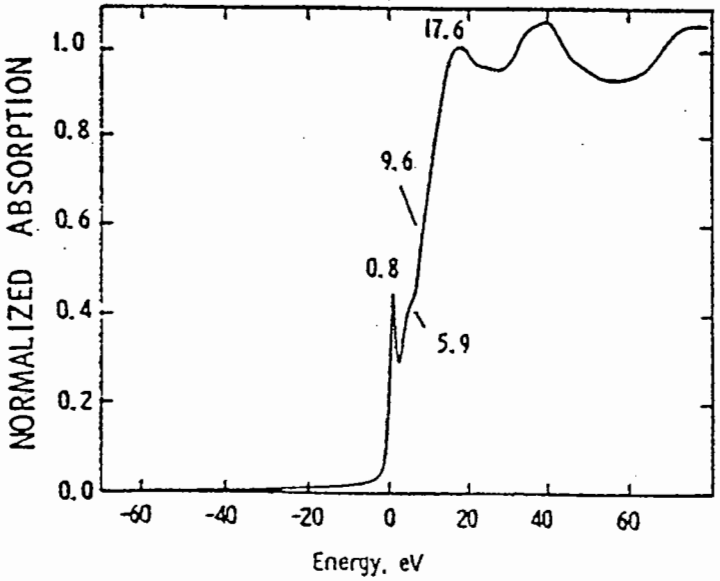
238
272

Ti

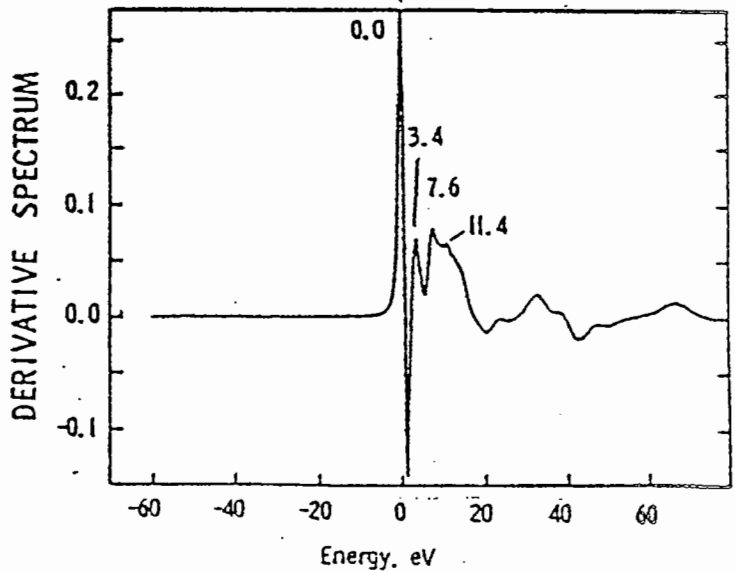
$E_K = 4966 \text{ eV}$

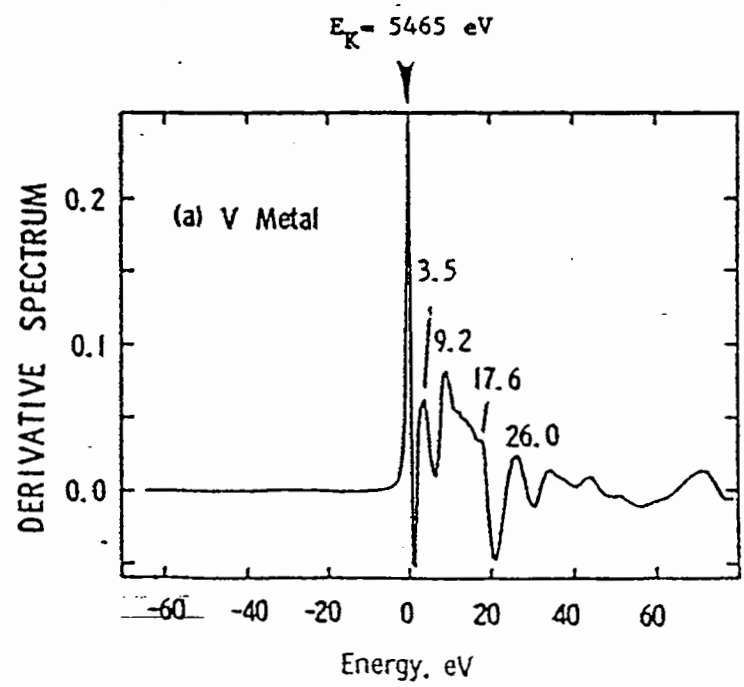
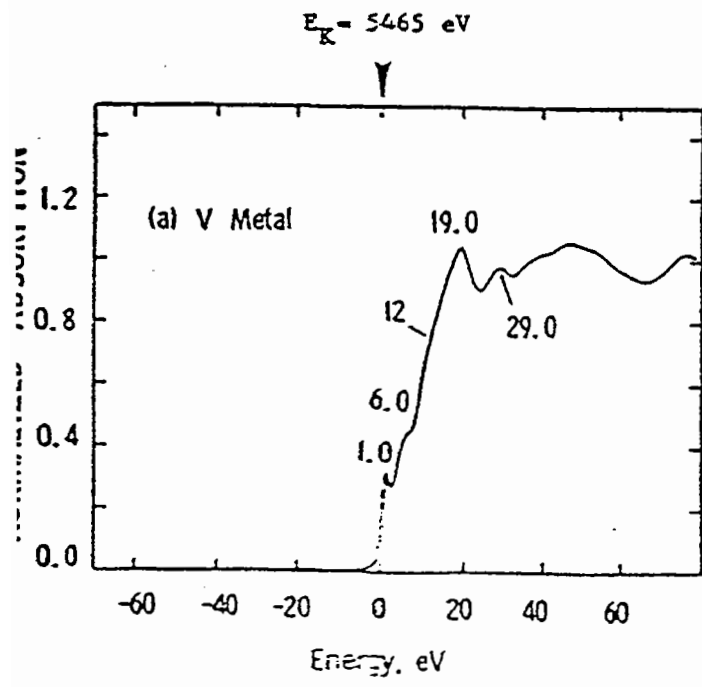
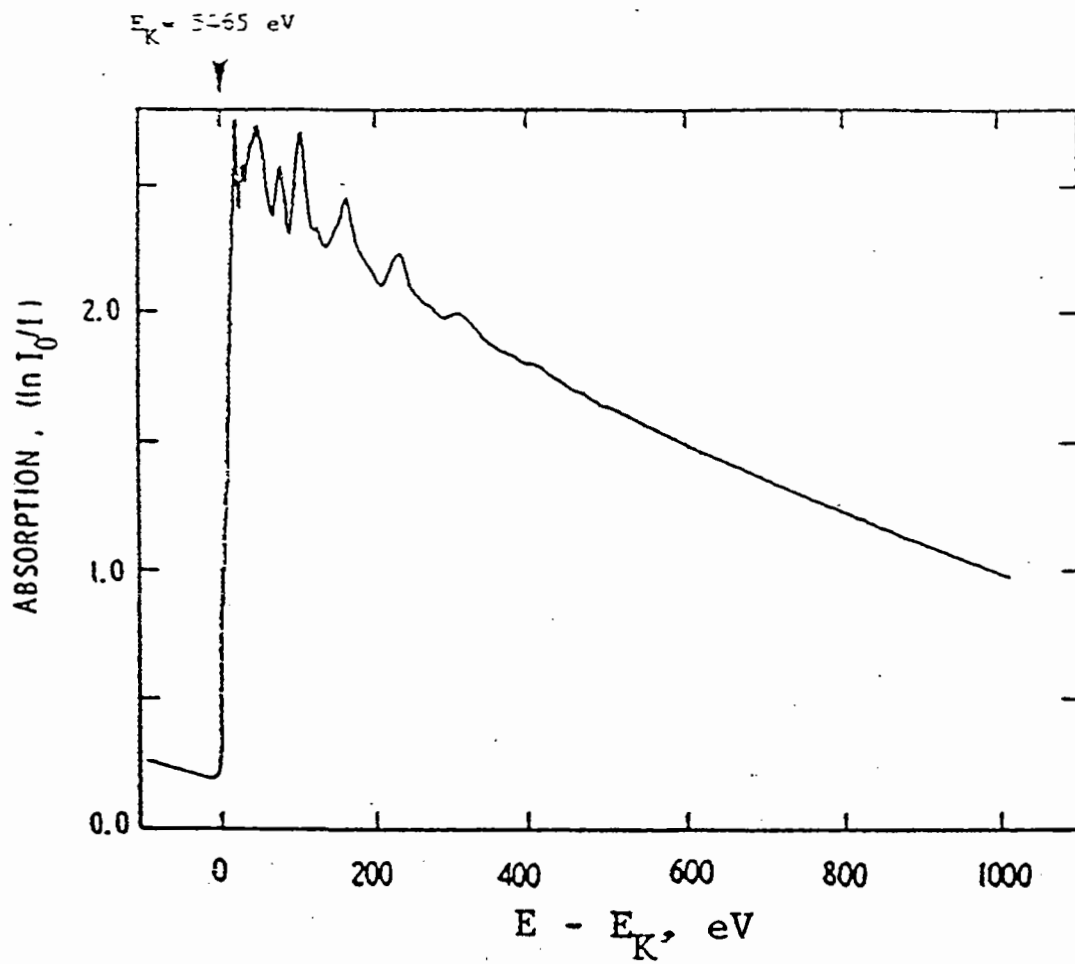


$E_K = 4966 \text{ eV}$

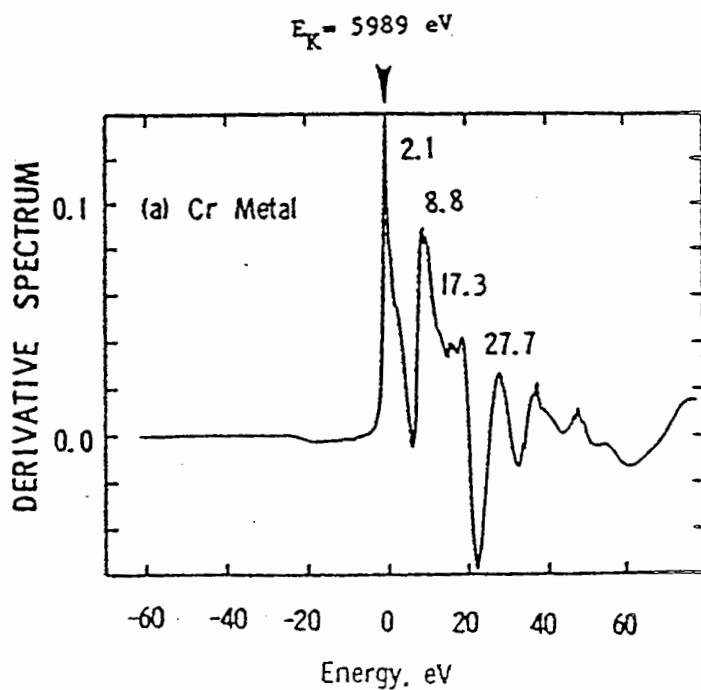
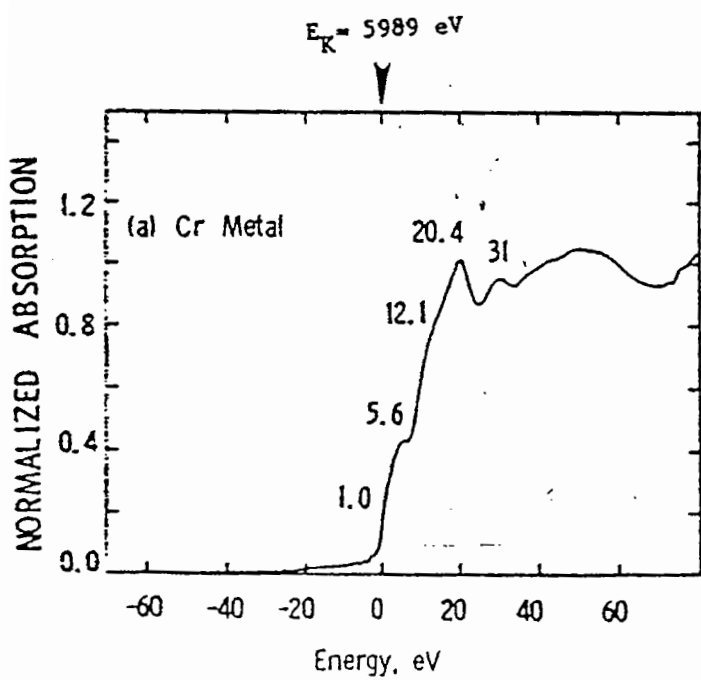
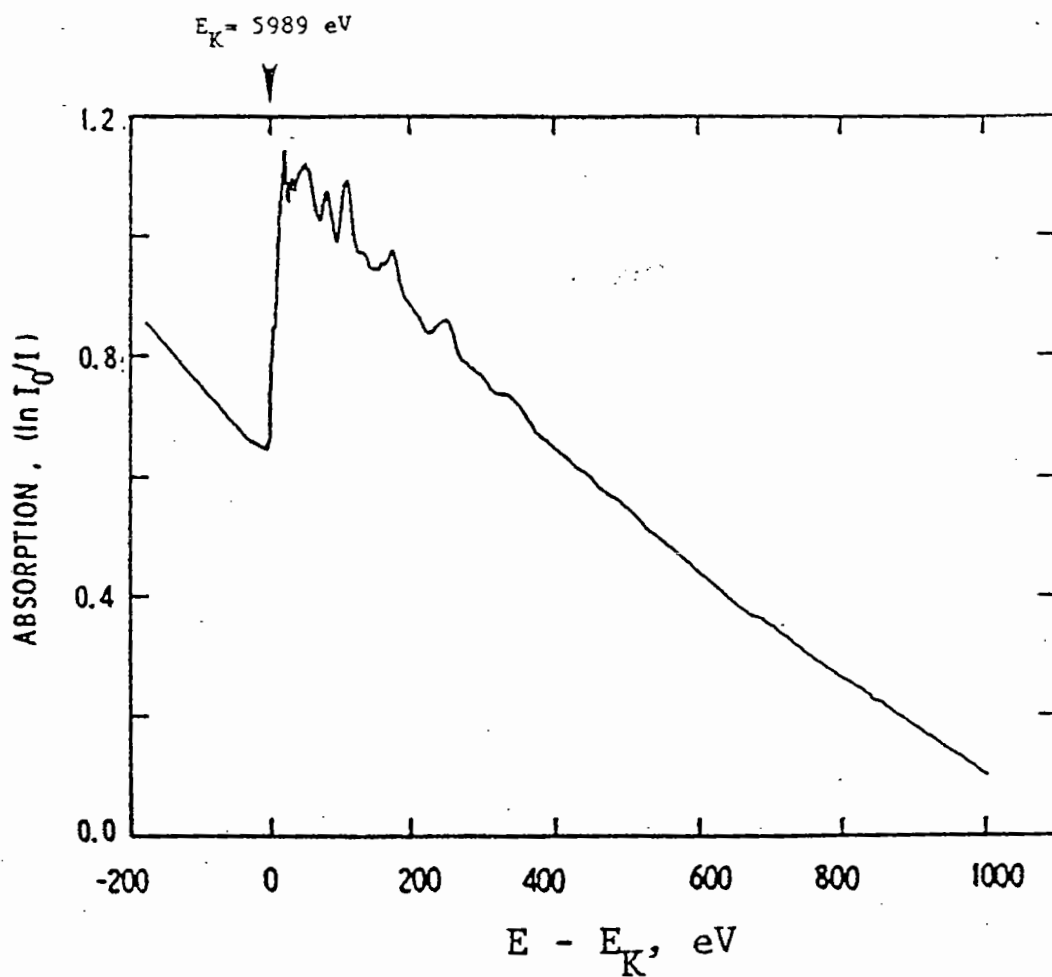


$E_K = 4966 \text{ eV}$

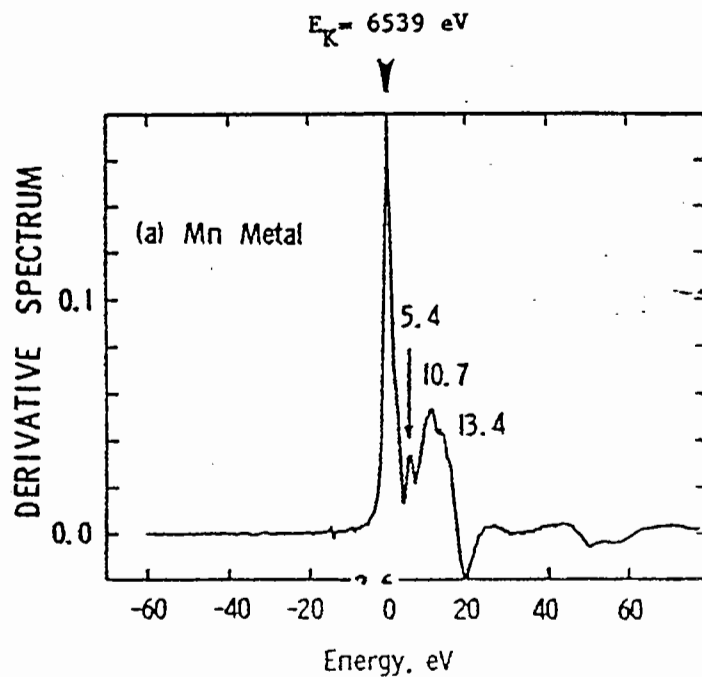
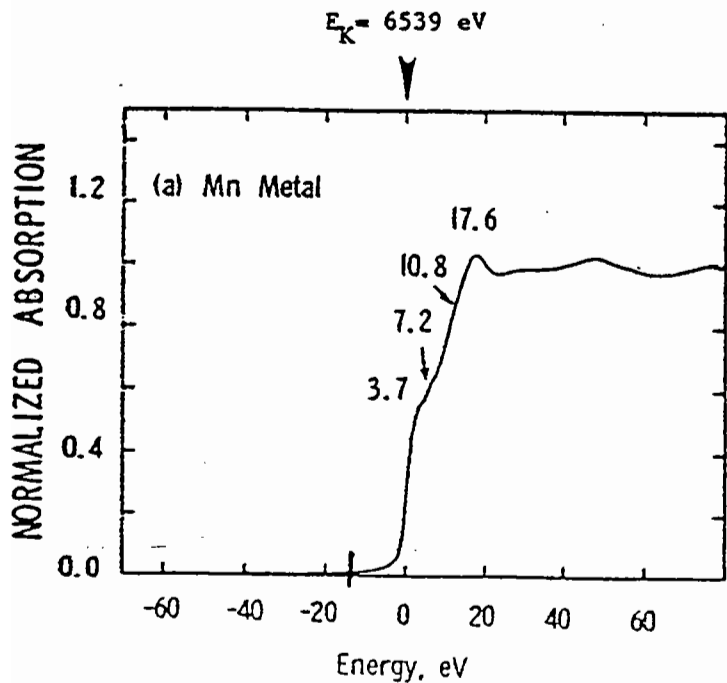
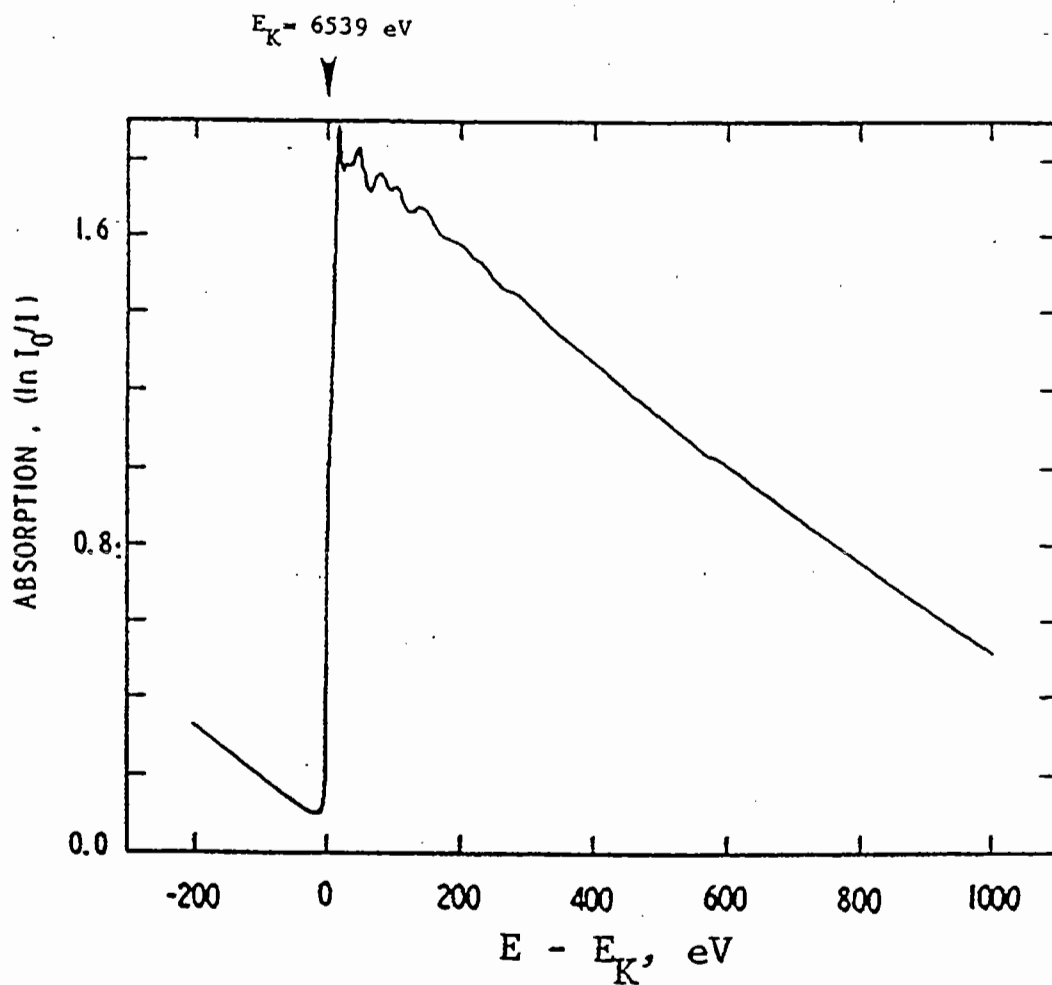




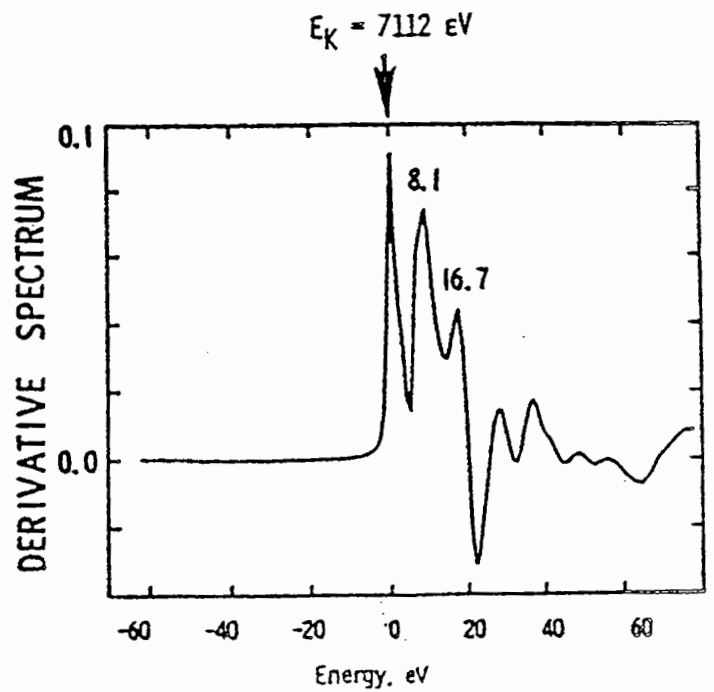
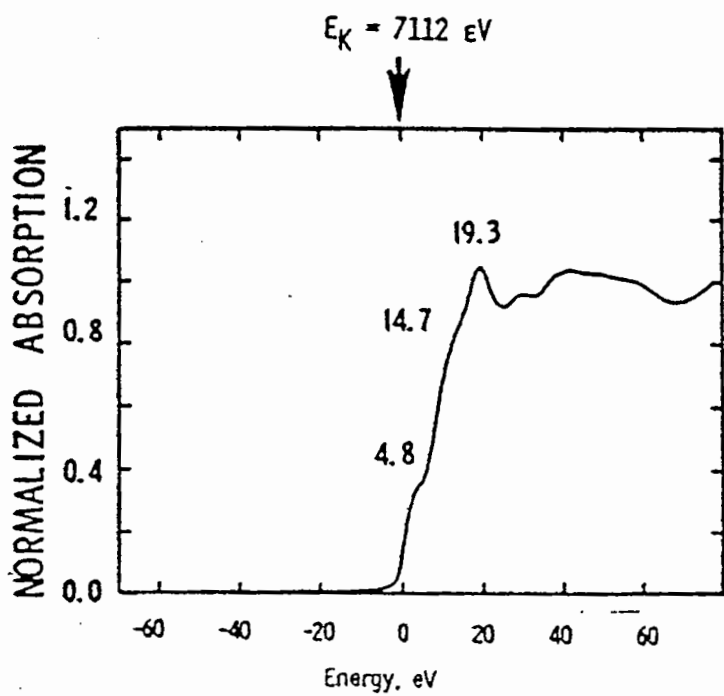
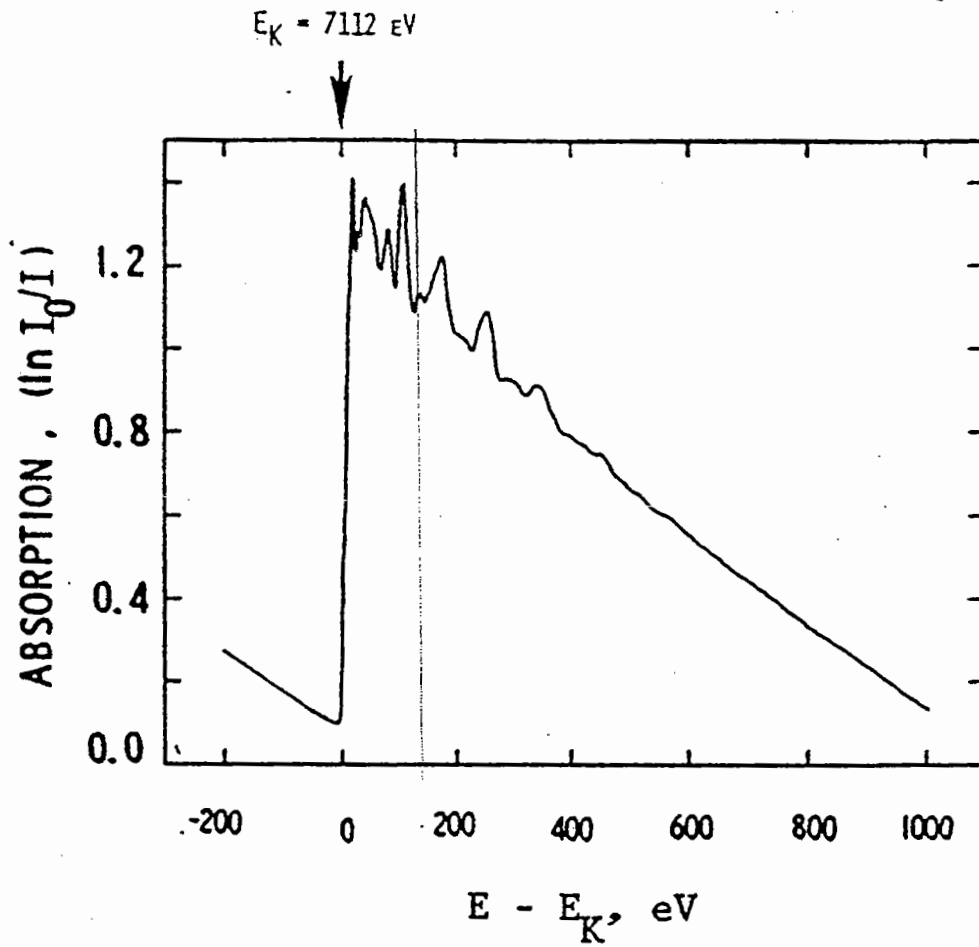
Cr



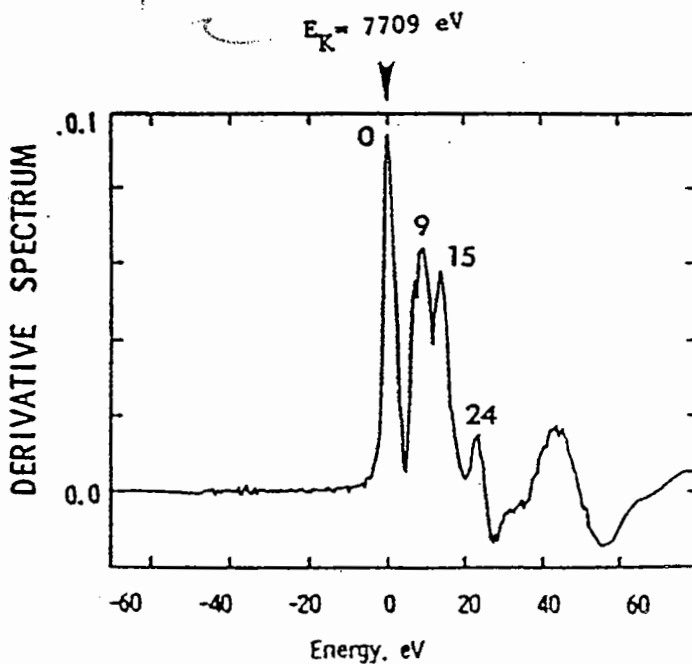
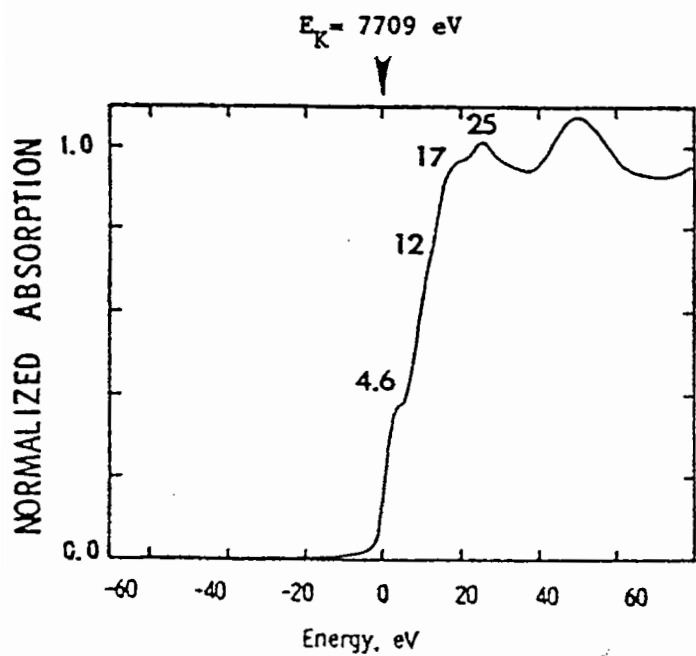
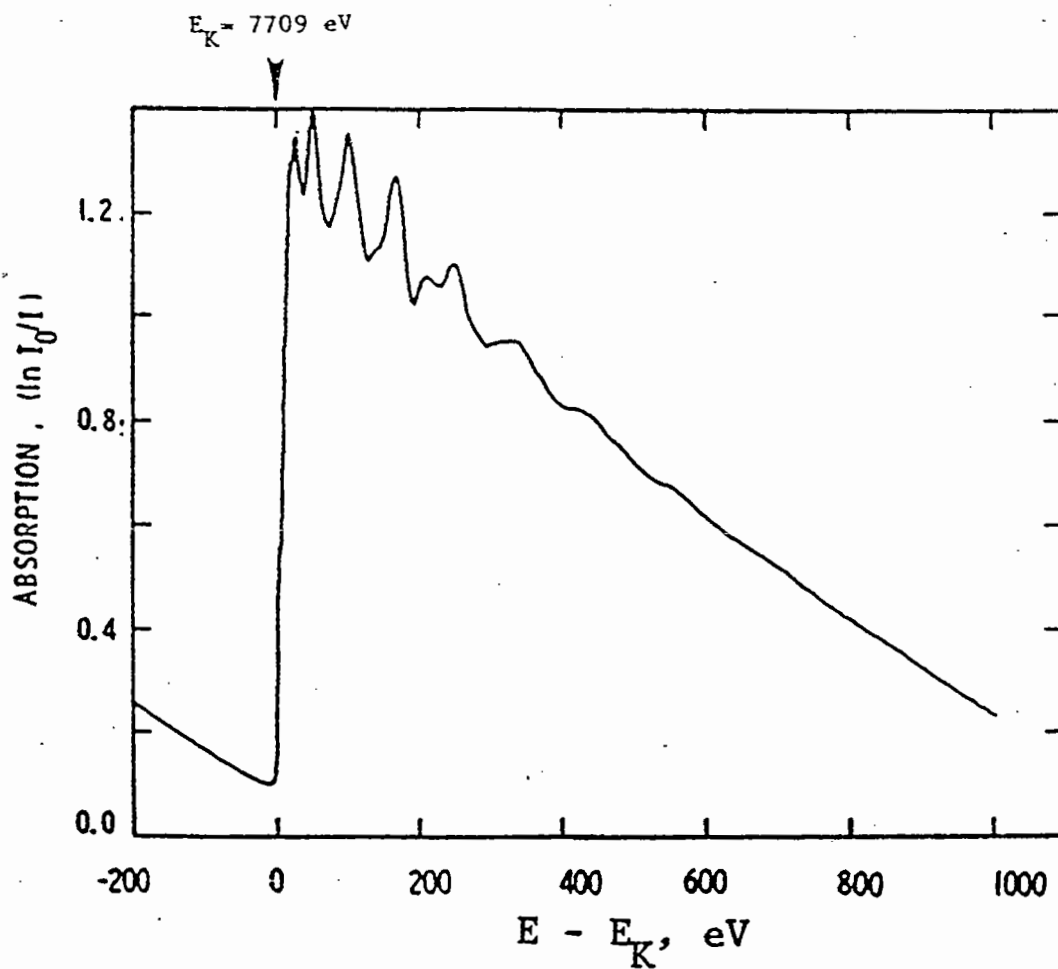
Mn



Fe

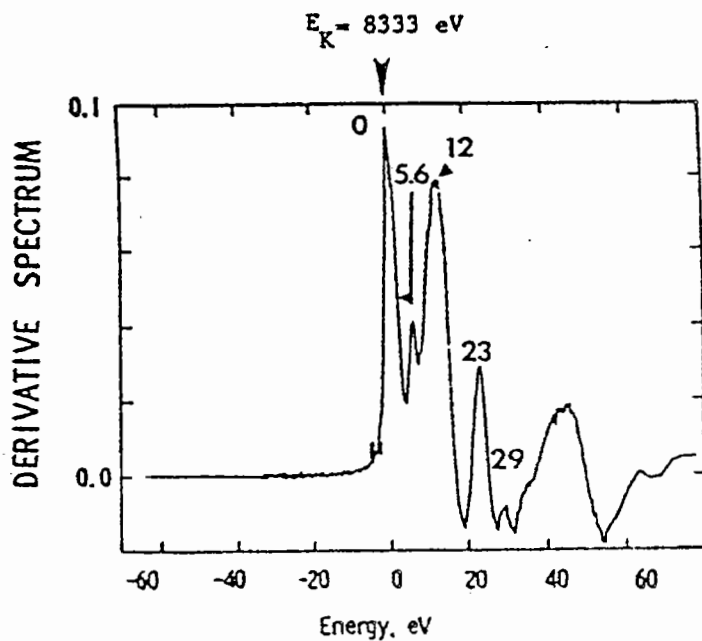
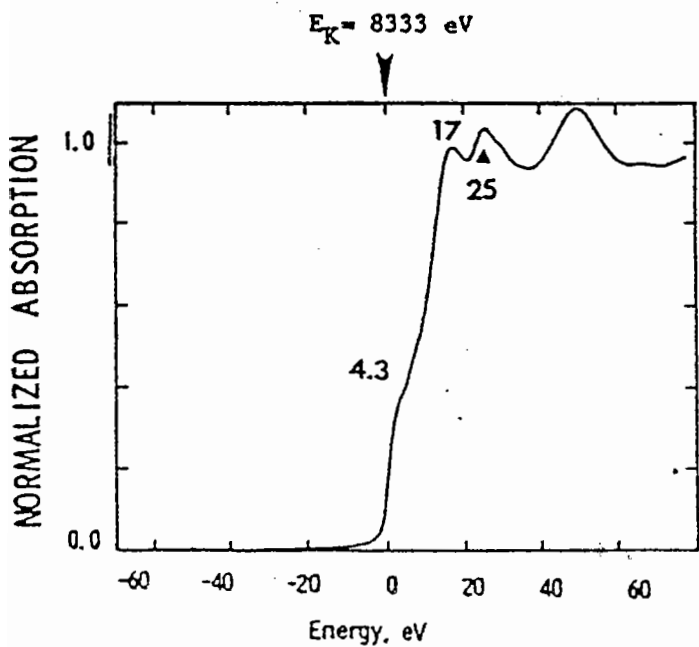
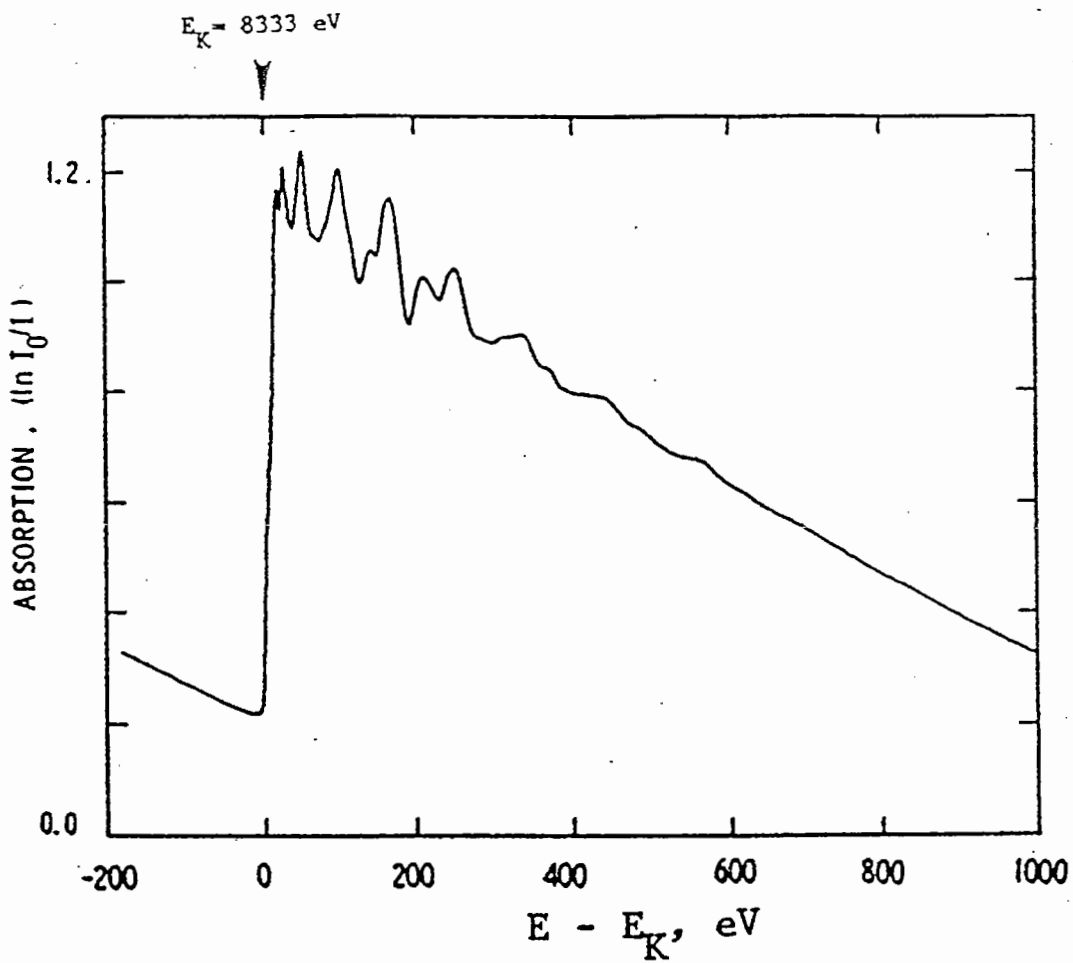


Co

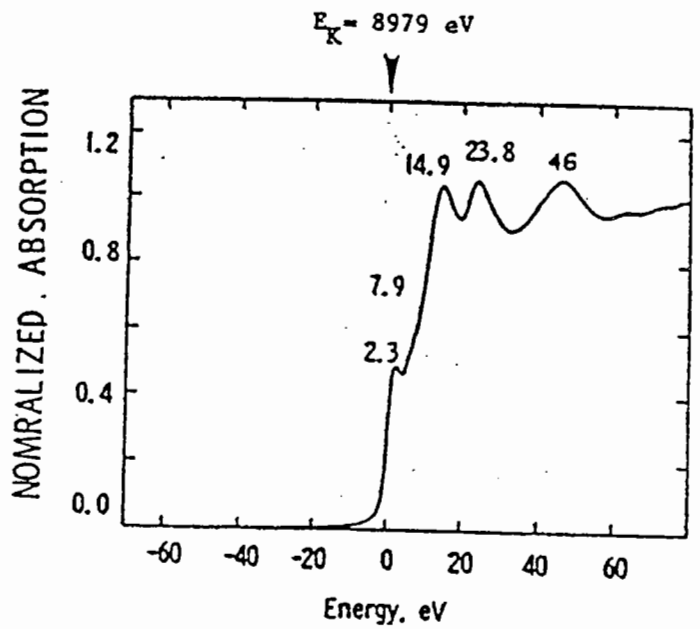
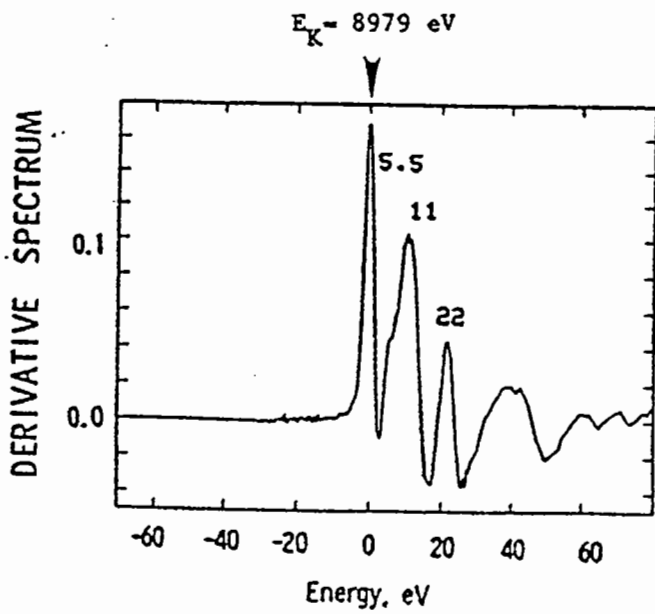
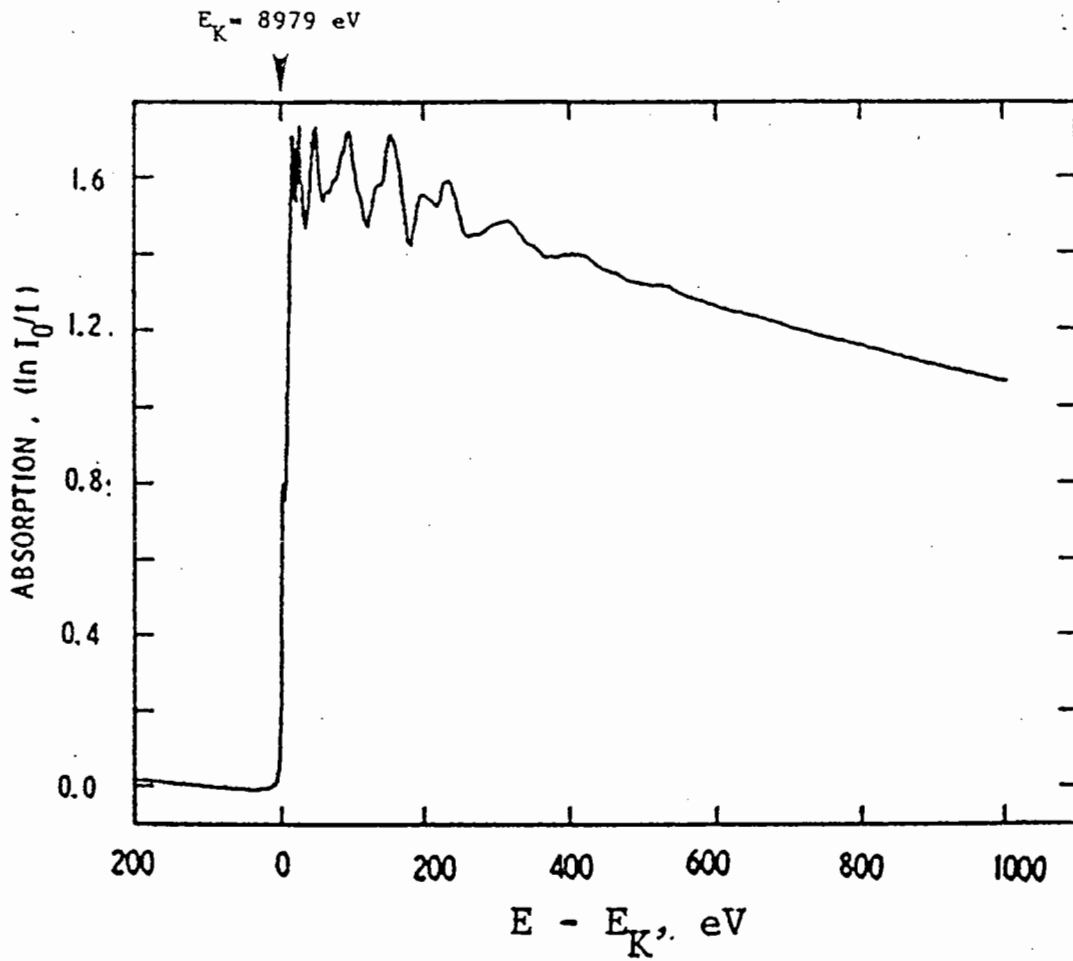


21/6

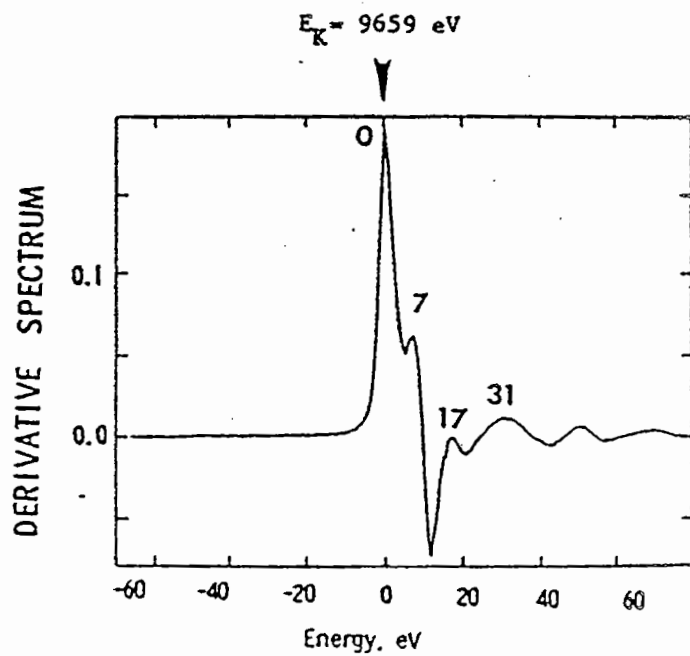
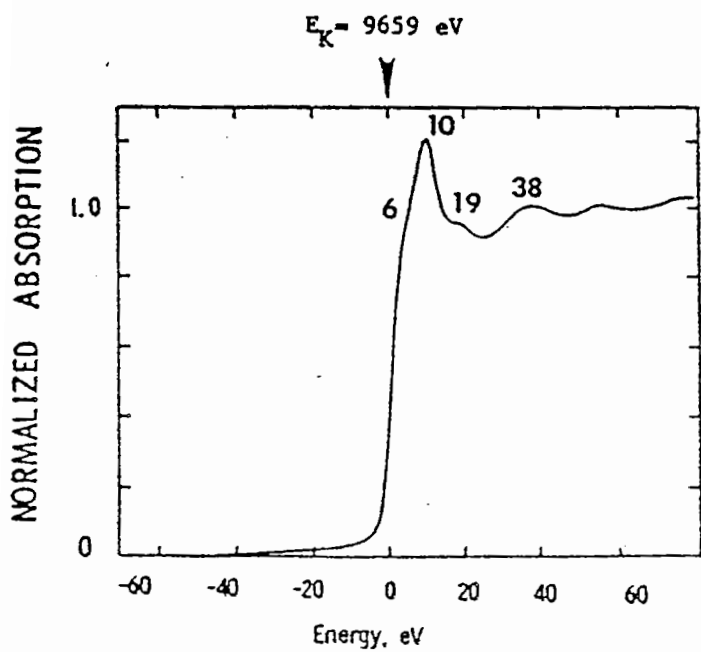
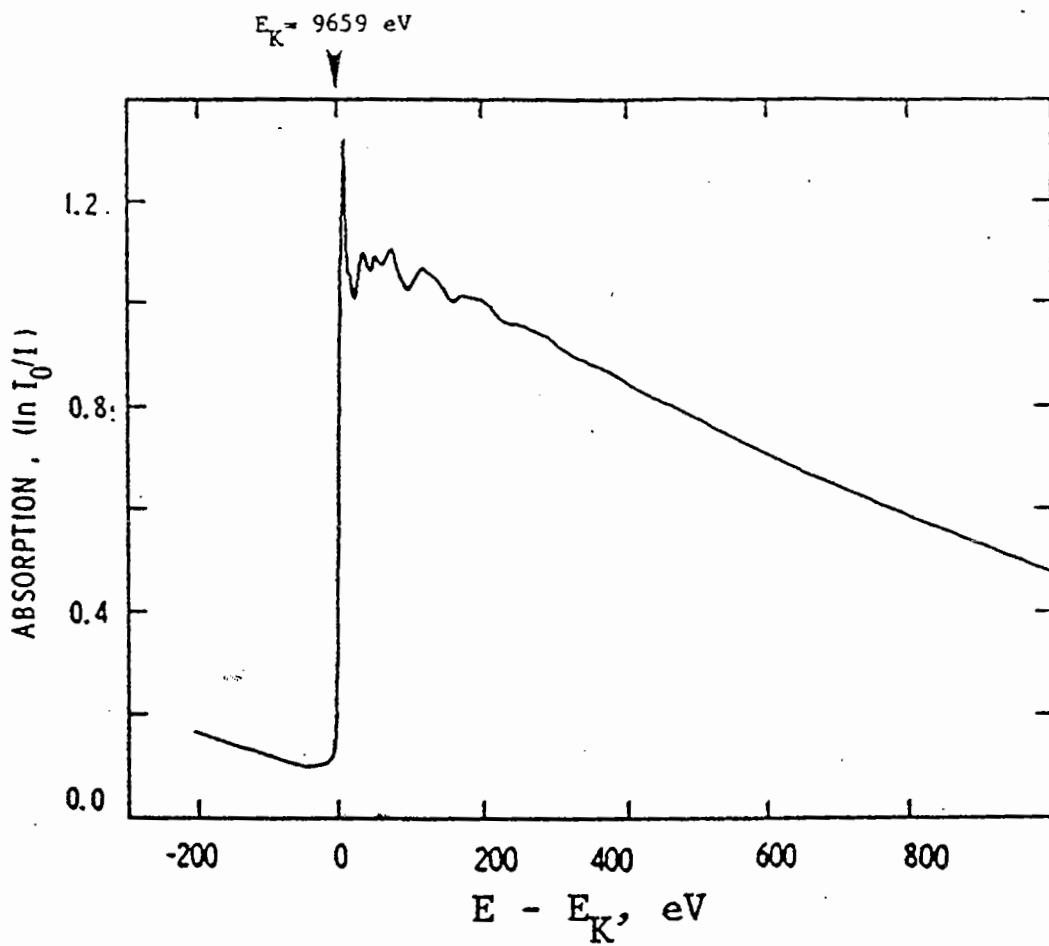
Ni

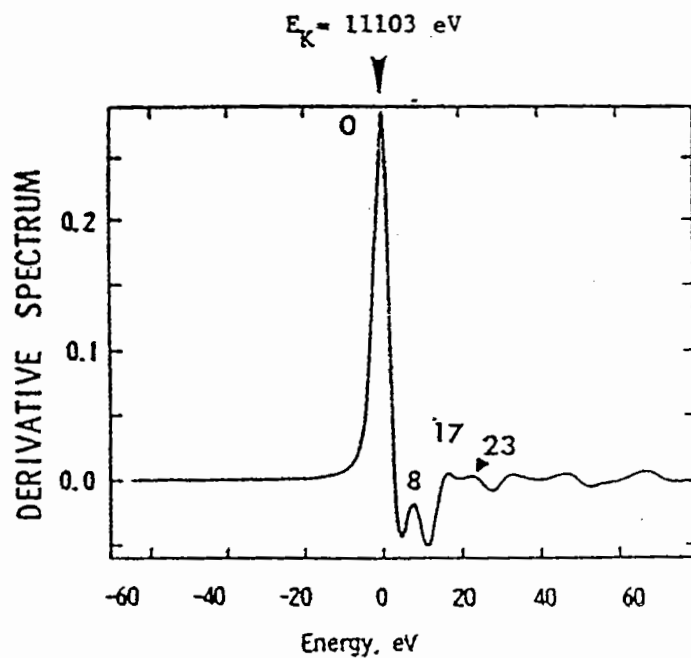
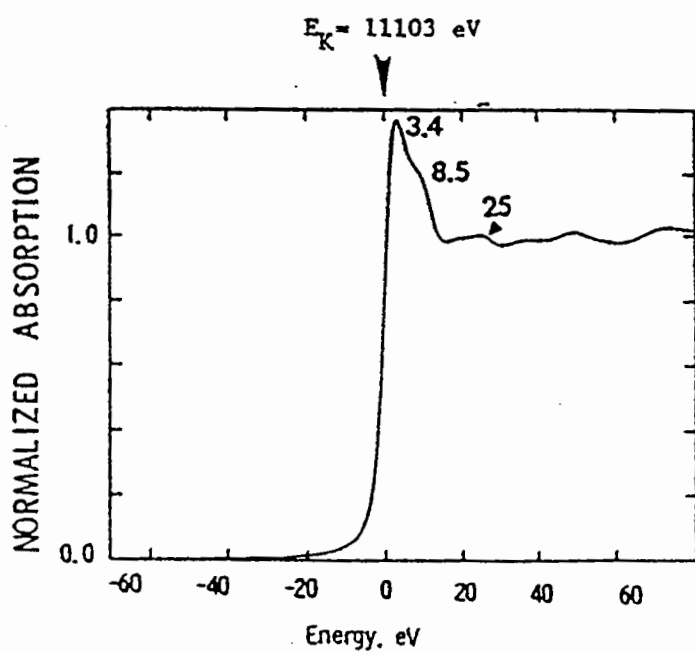
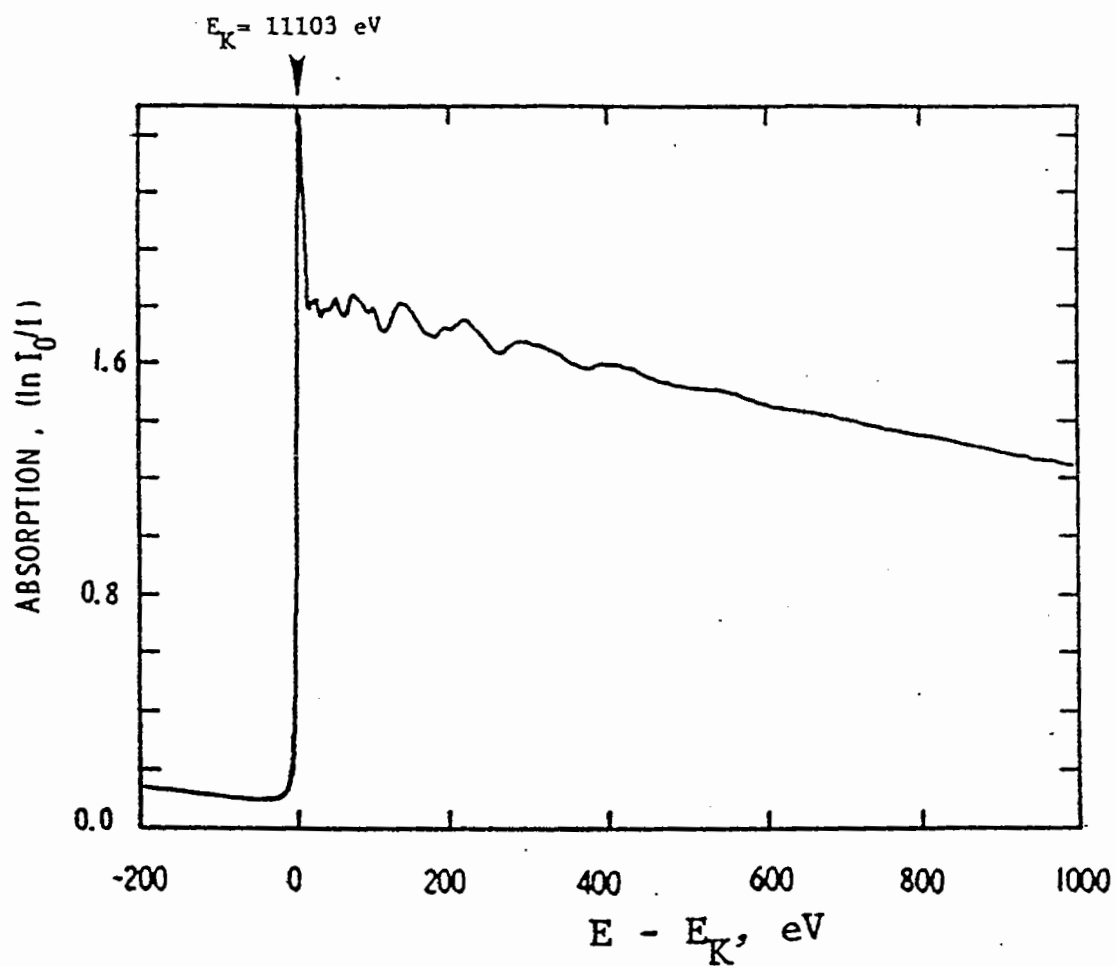


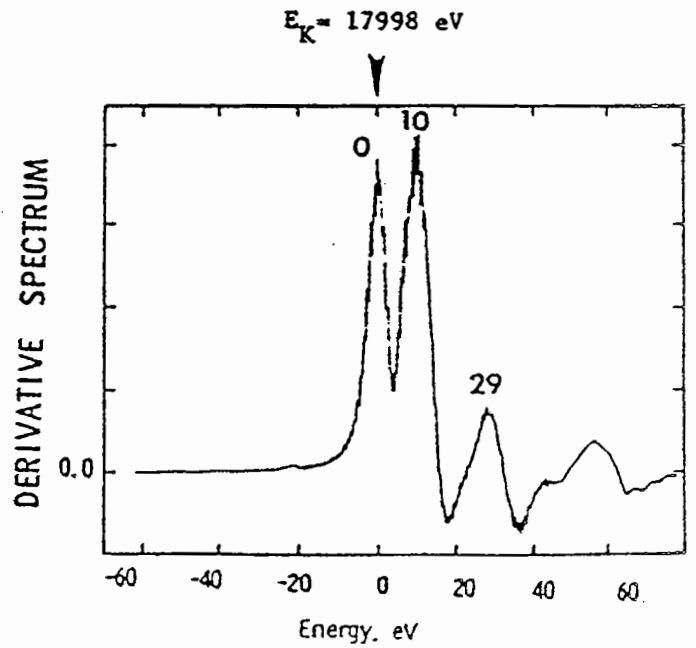
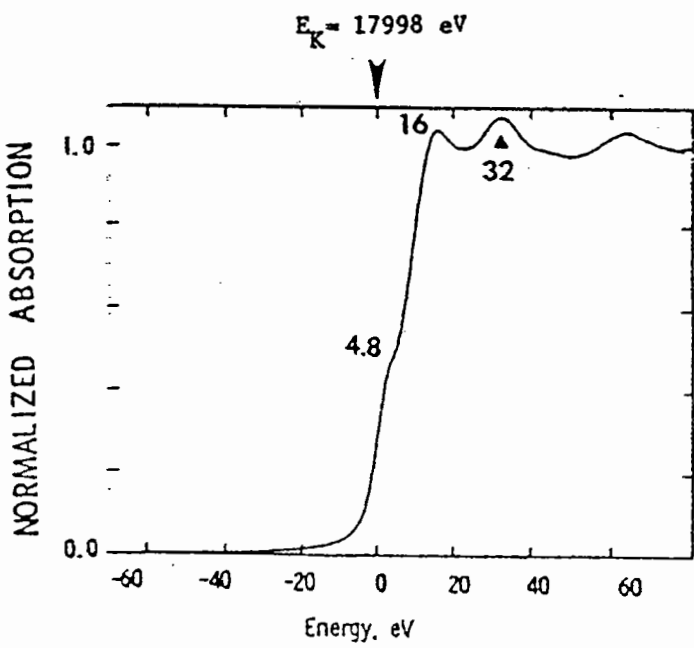
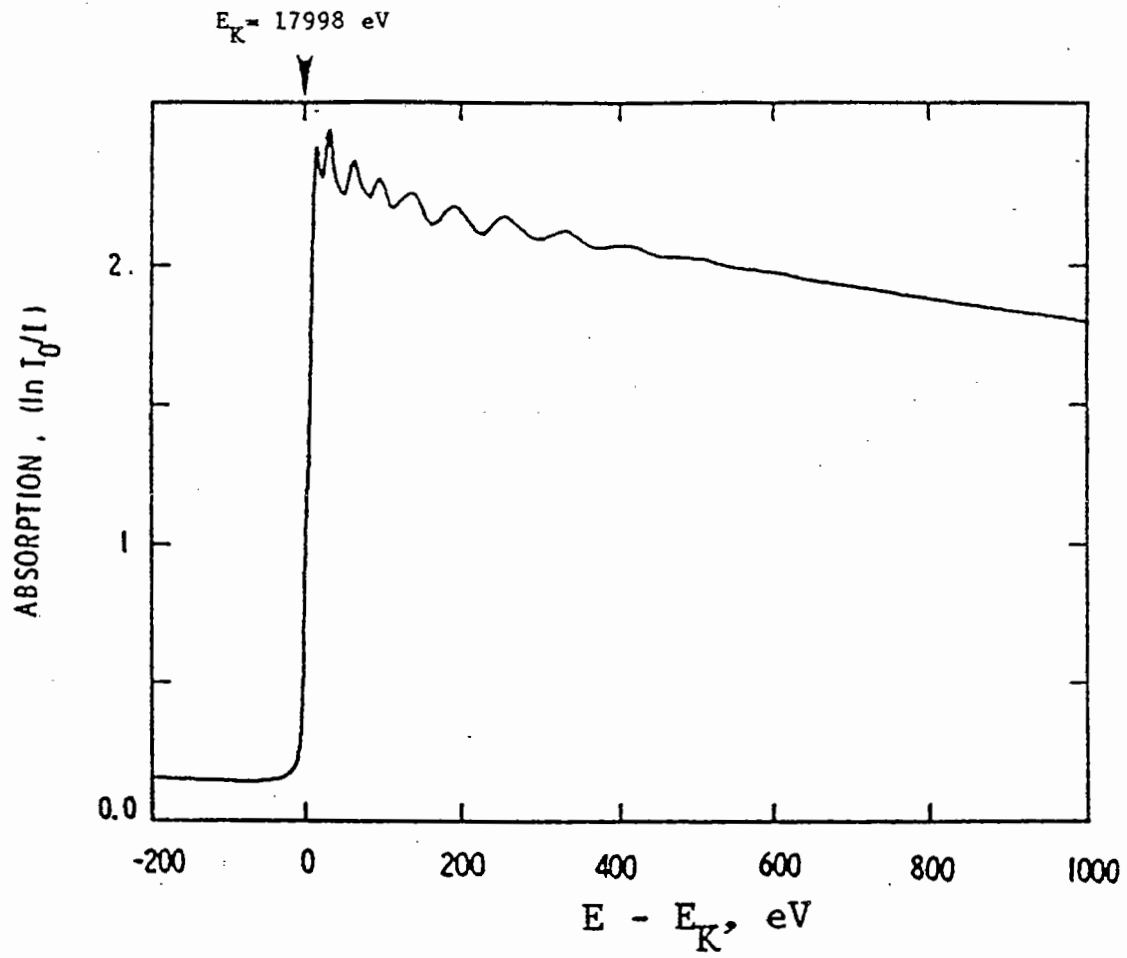
Cu



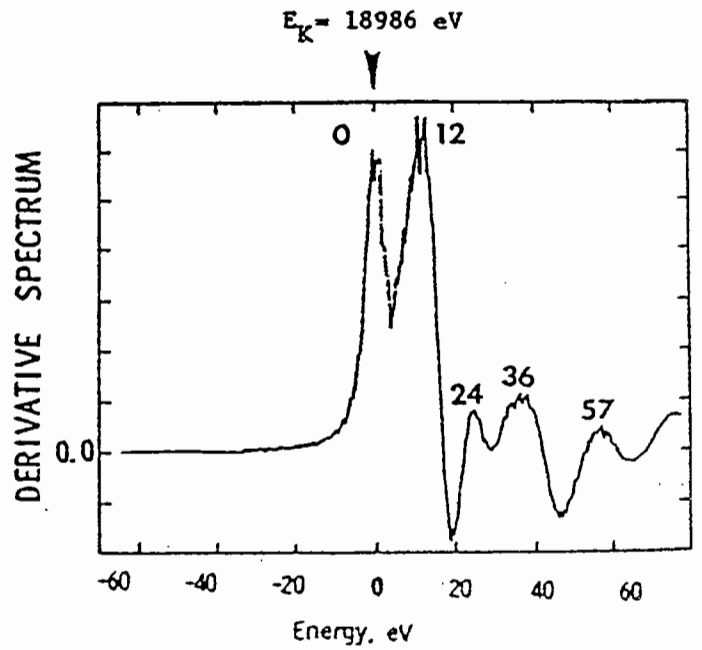
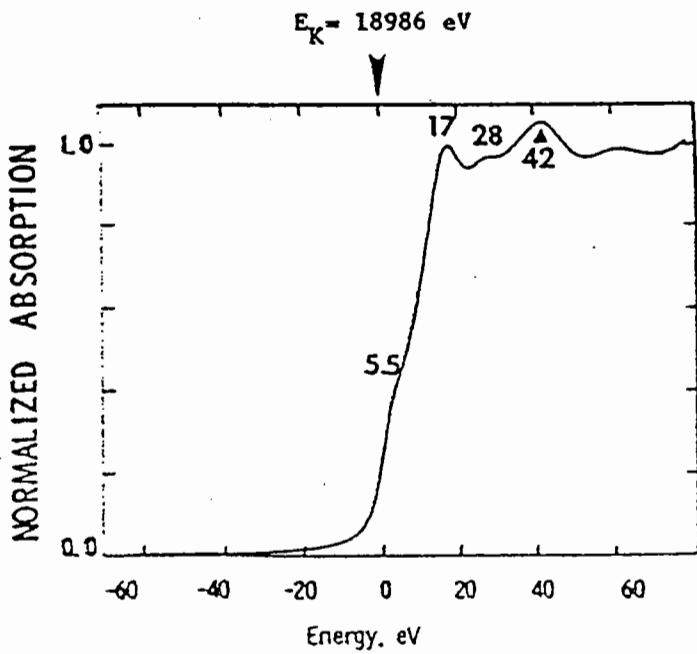
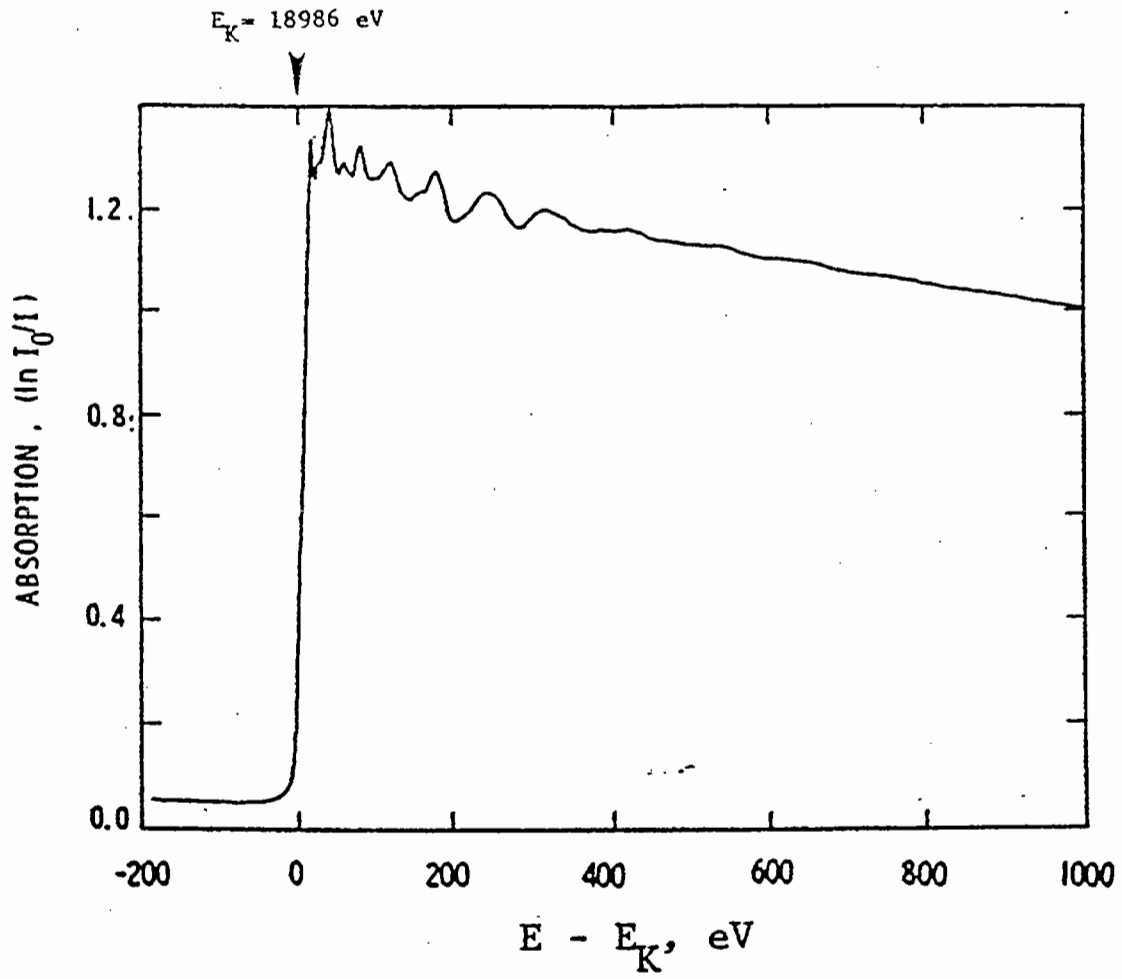
Zn



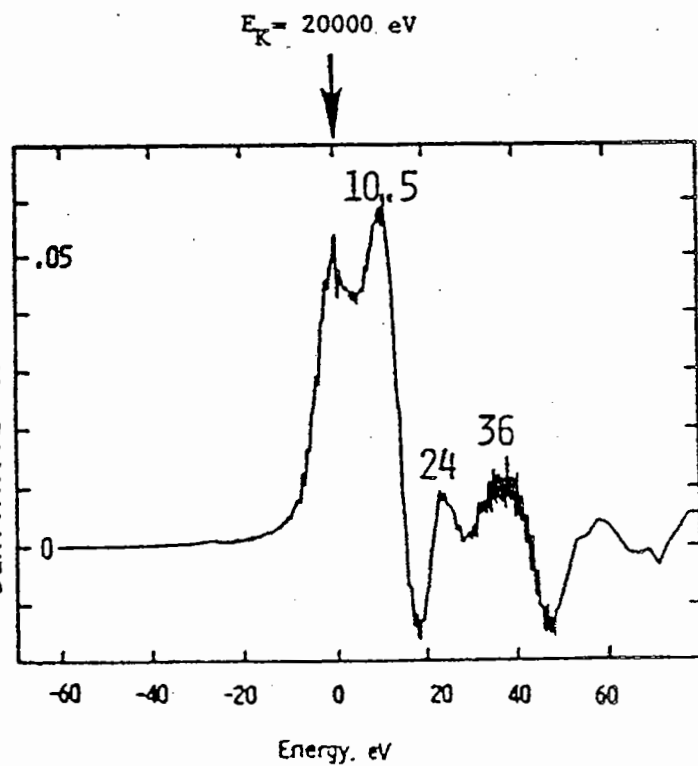
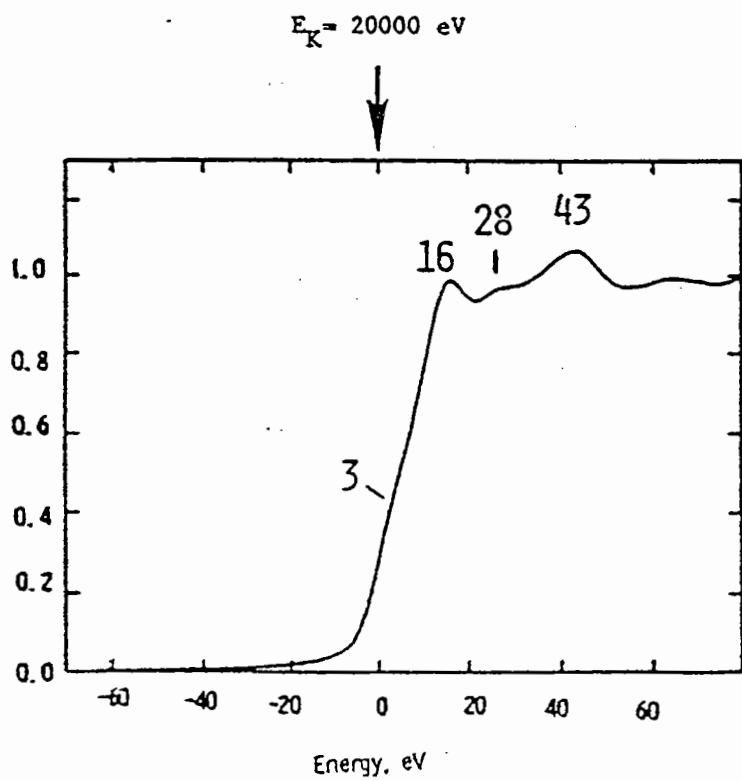
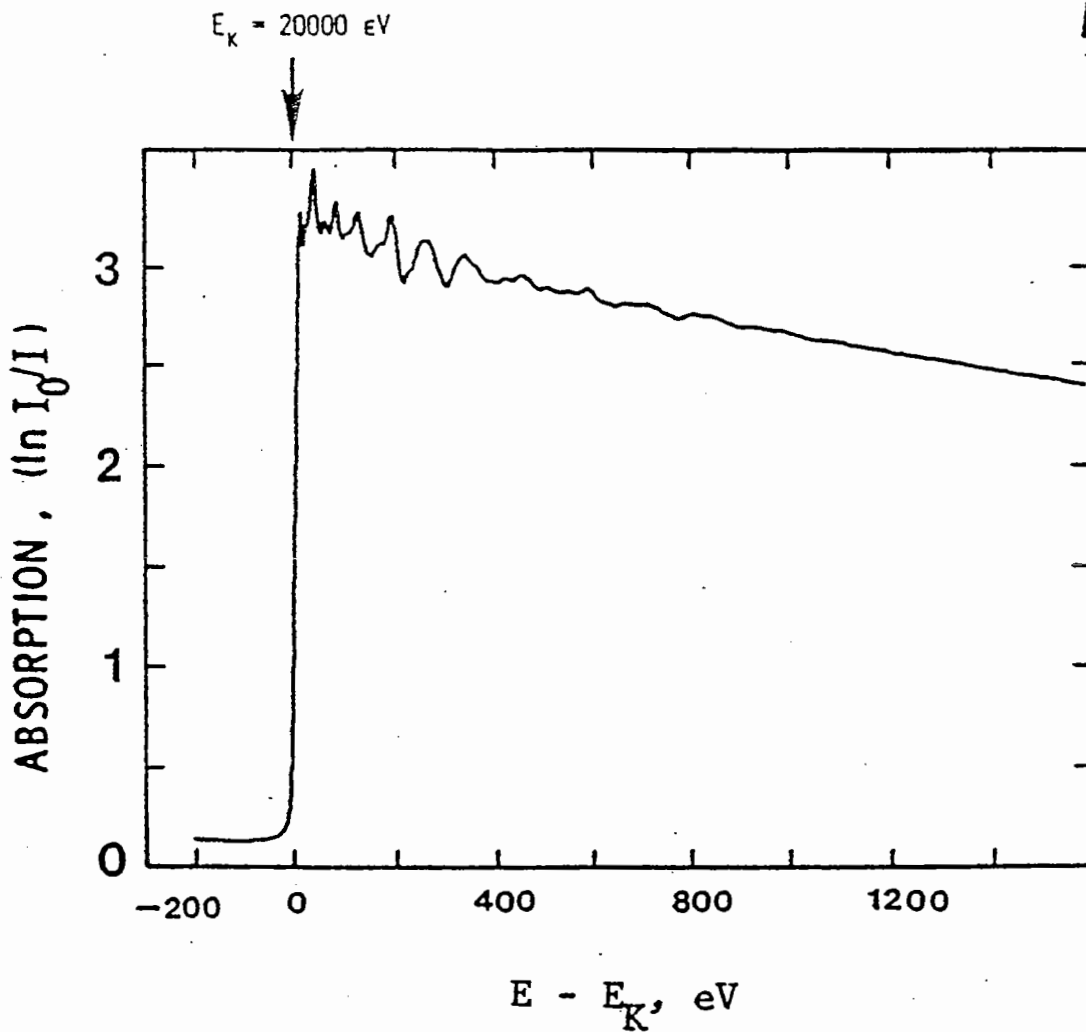




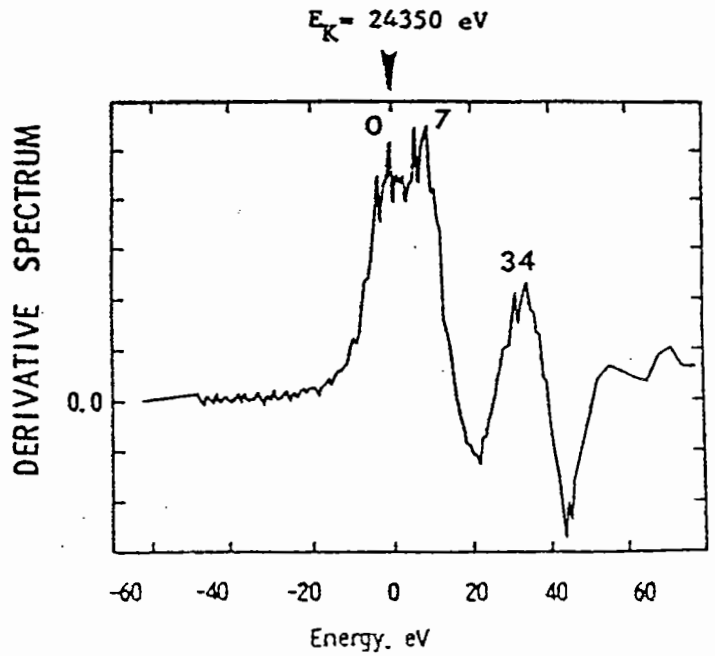
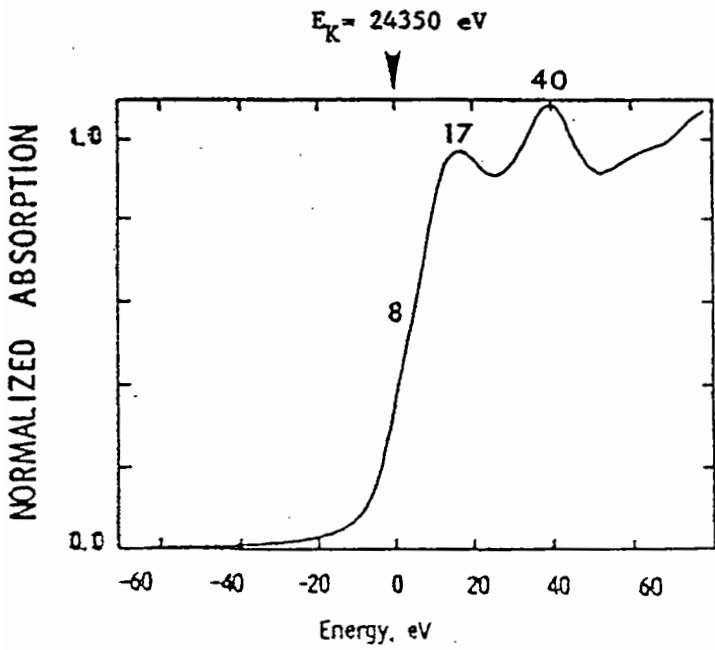
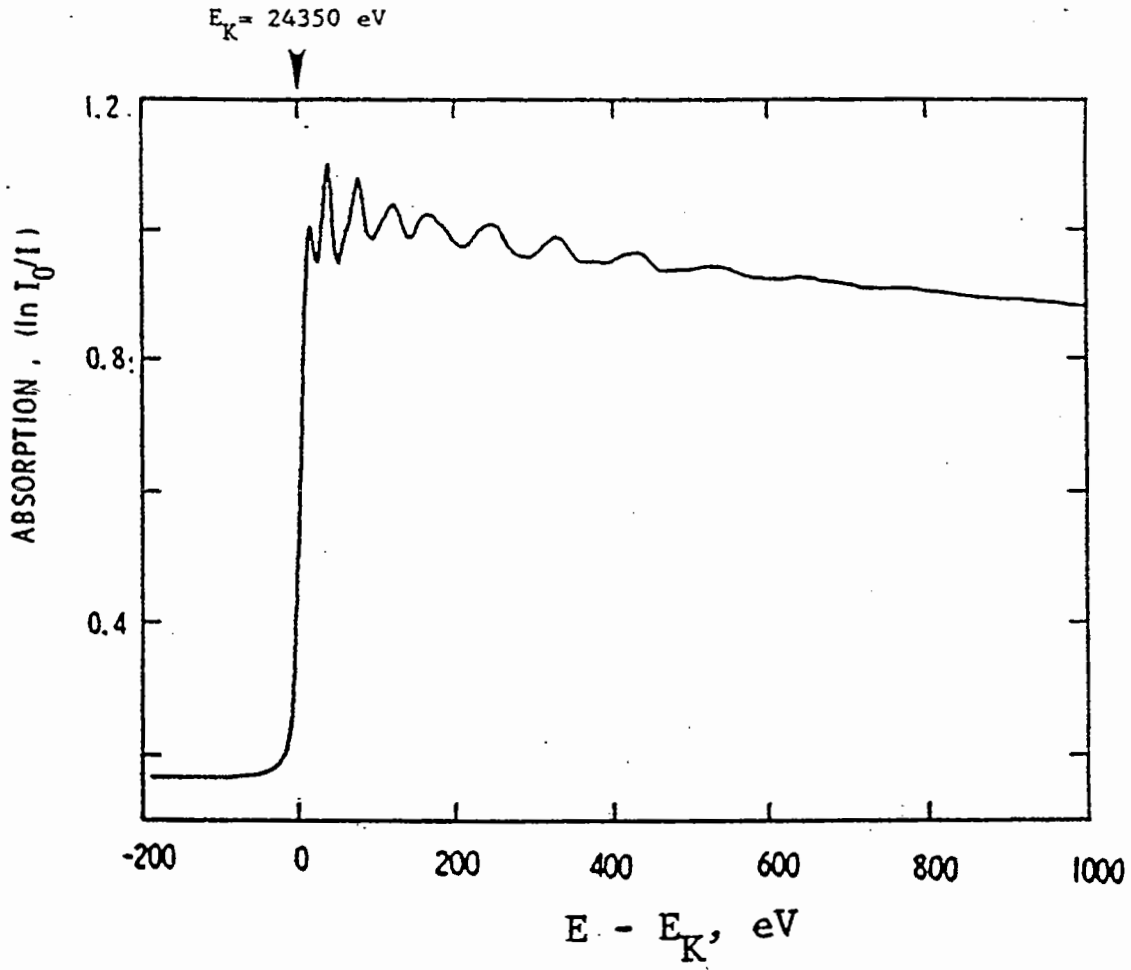
Nb



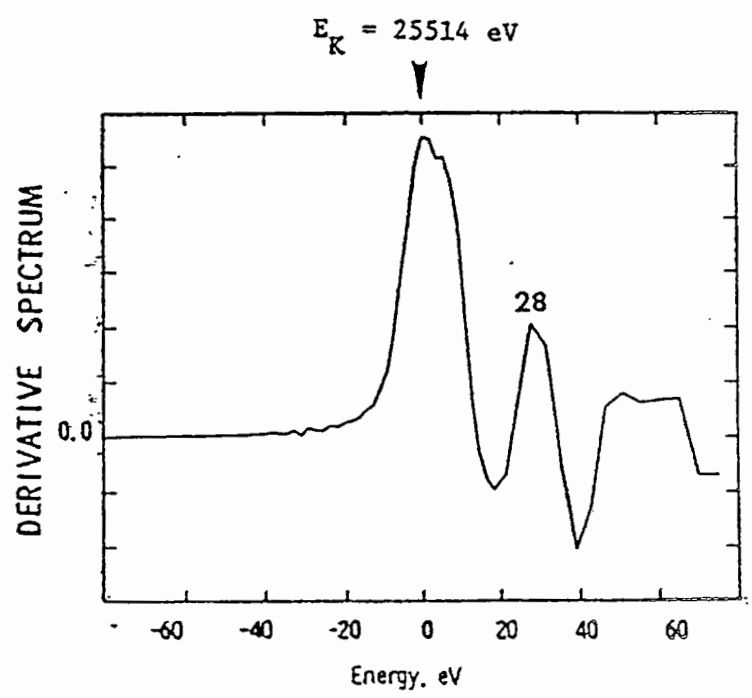
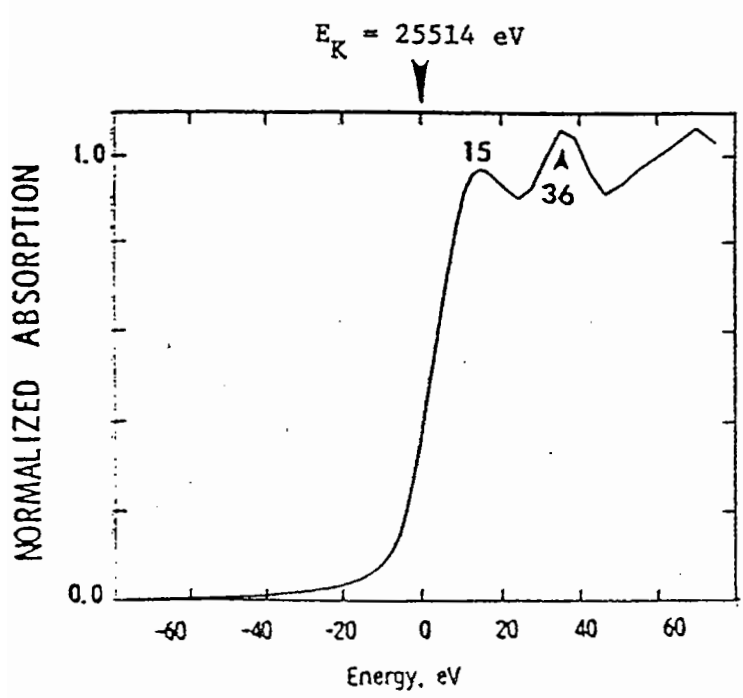
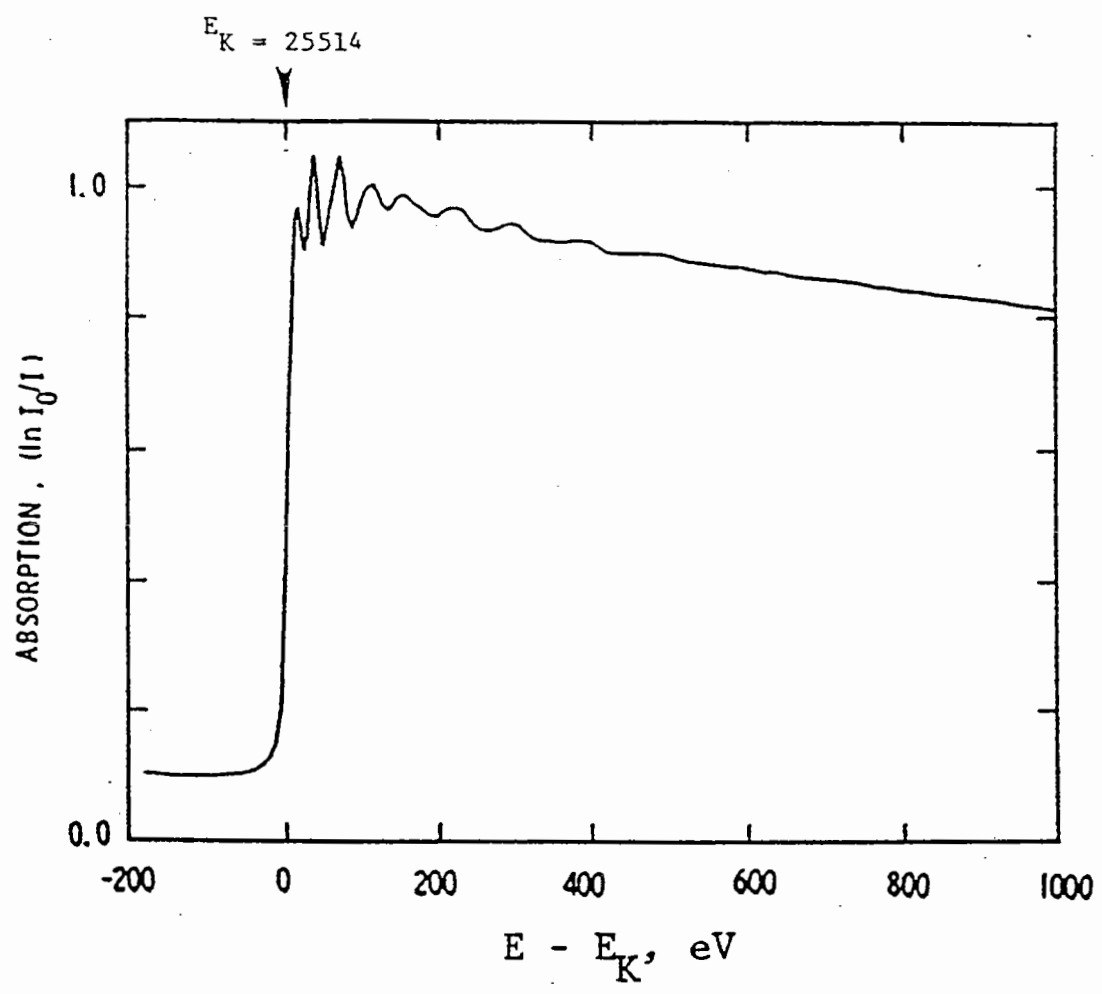
Mo



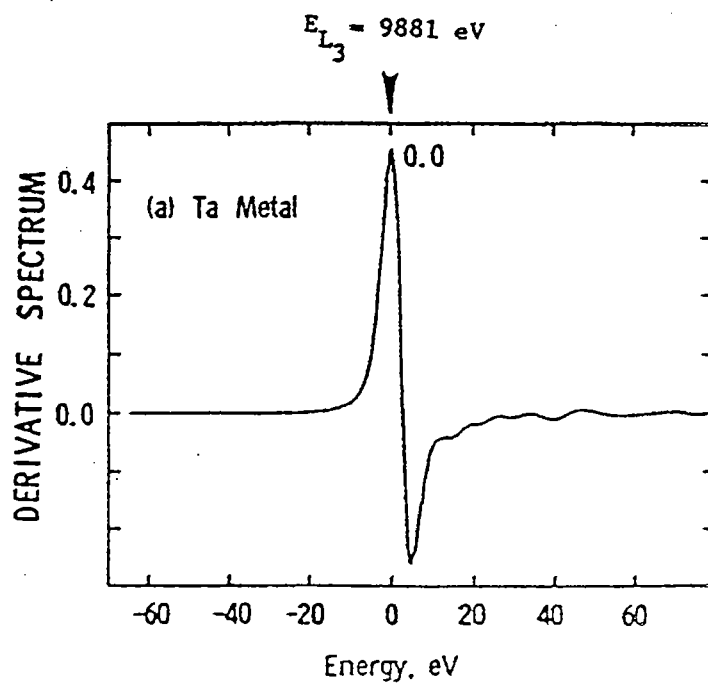
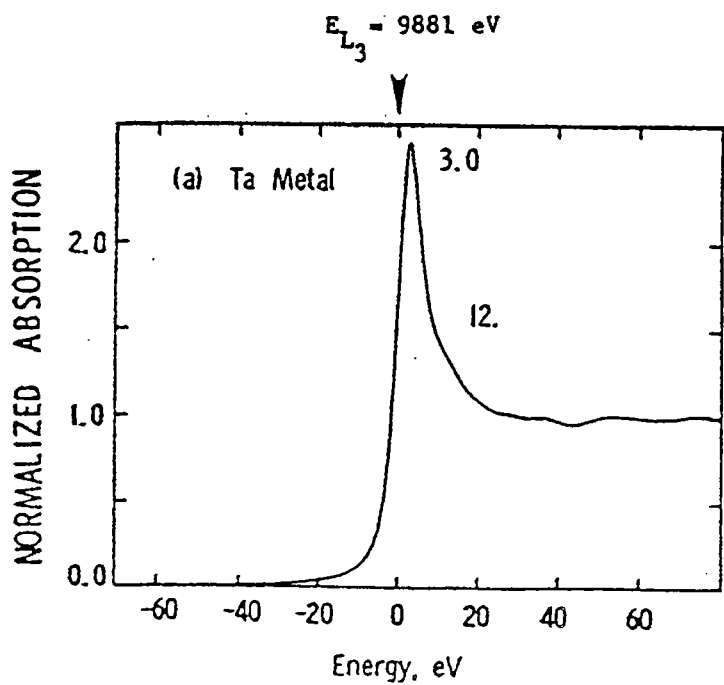
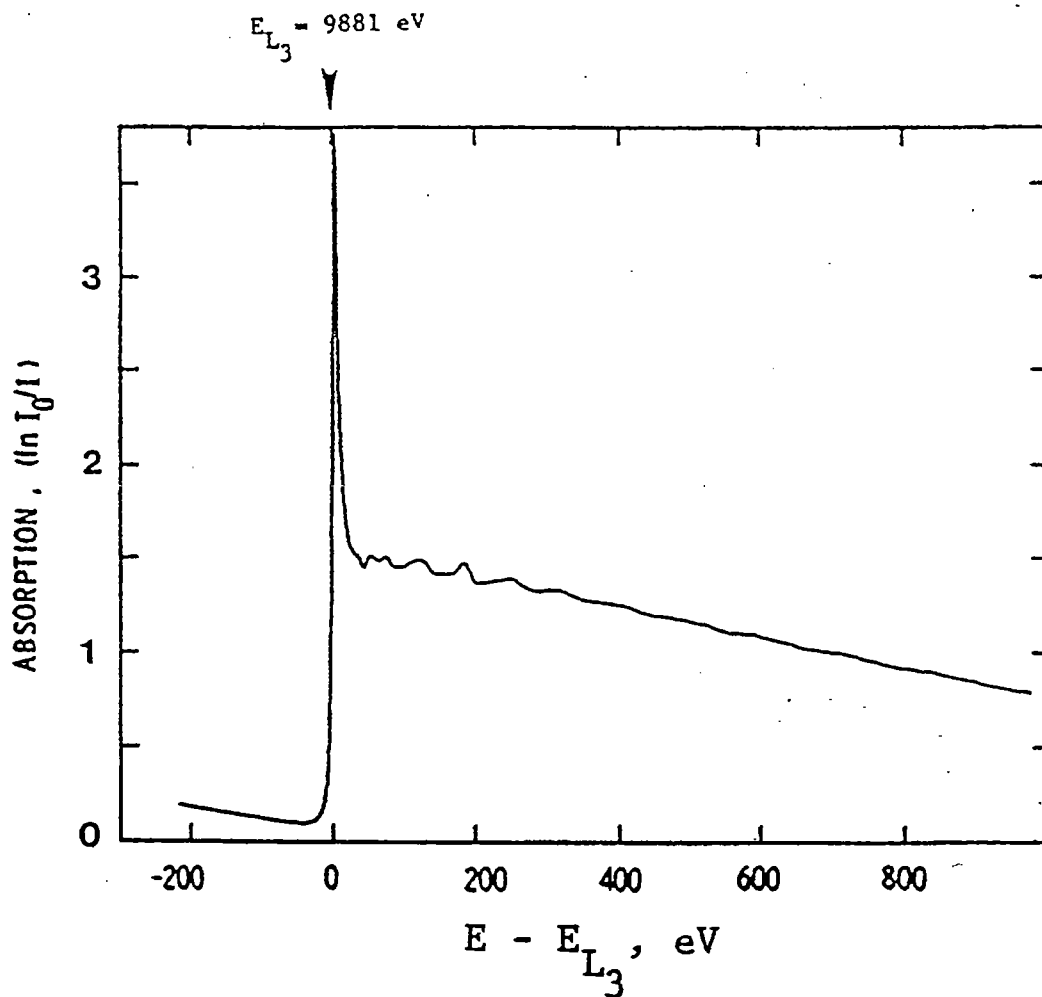
Pd



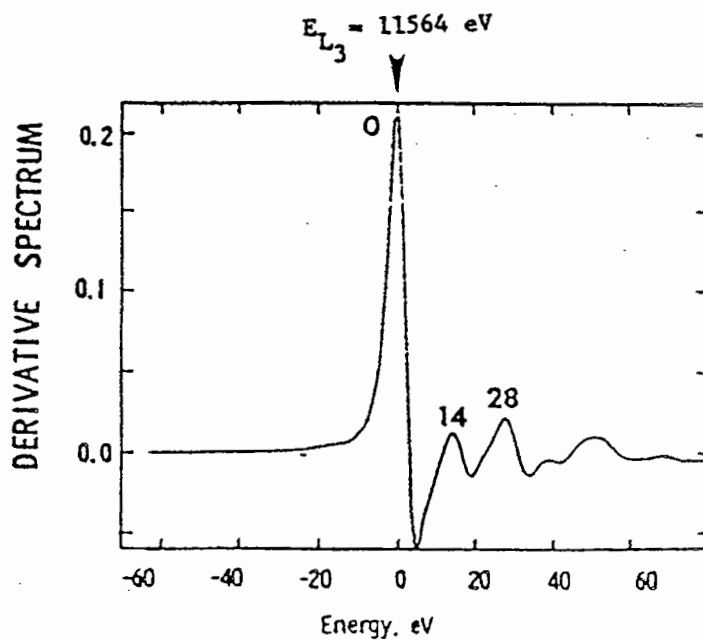
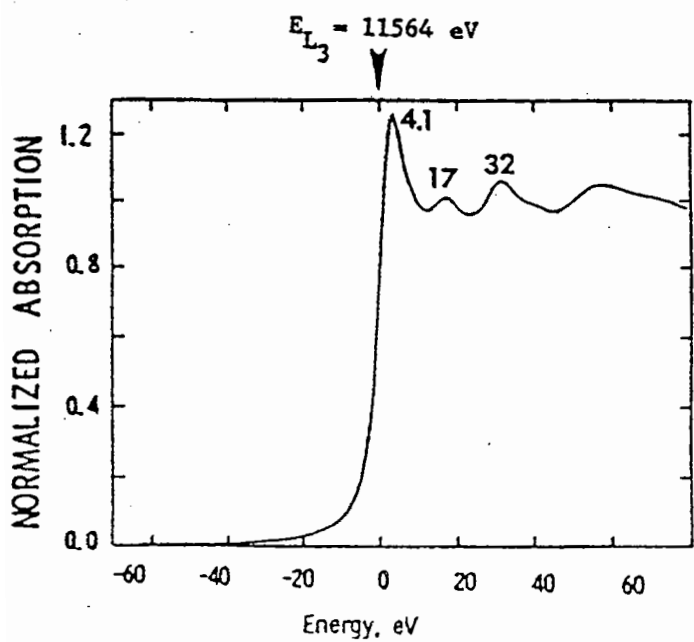
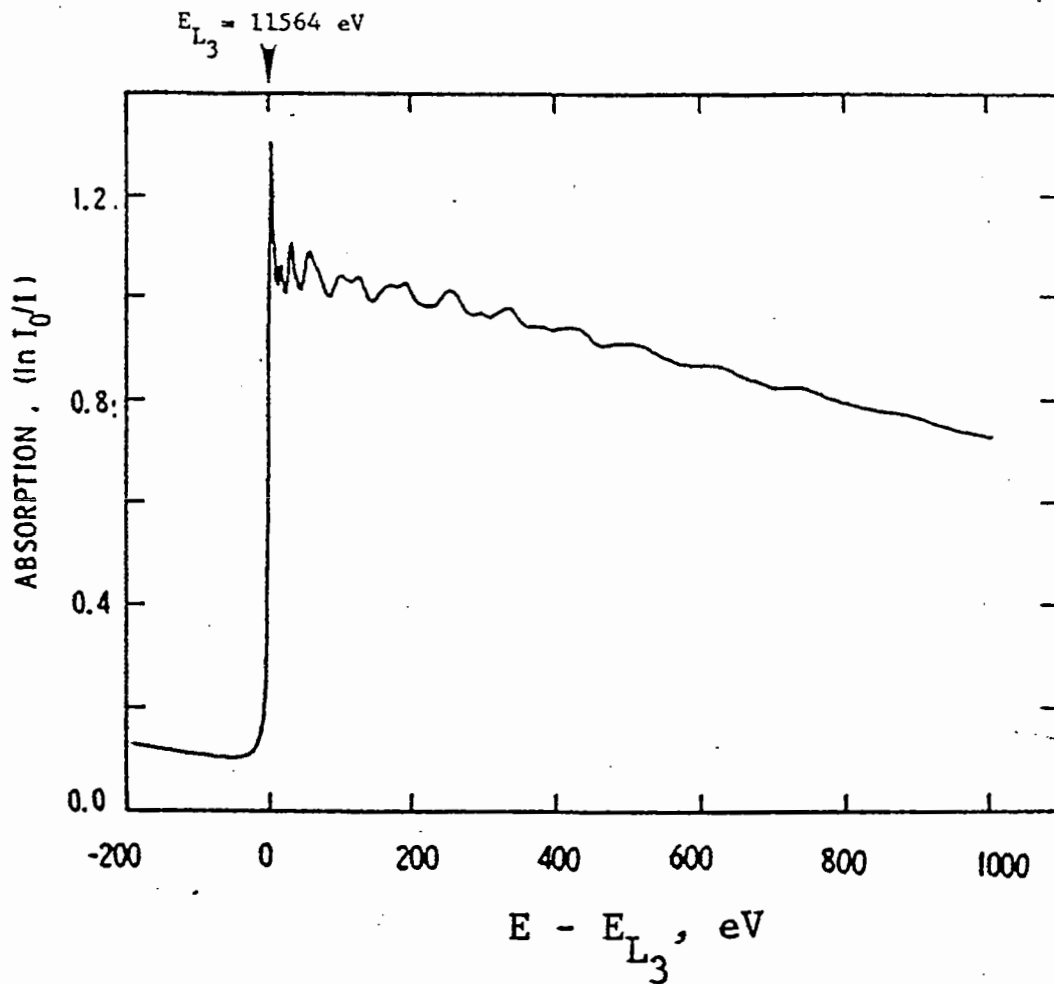
Ag



Ta



Pt



Au

