

Electron Binding Energies in electron volts

K 1s	L ₁ 2s	L ₂ 2p _{1/2}	L ₃ 2p _{3/2}	M ₁ 3s	M ₂ 3p _{1/2}	M ₃ 3p _{3/2}	M ₄ 3d _{3/2}	M ₅ 3d _{5/2}
50,239.	8,376.	7,930.	7,243.	1,881.	1,688.	1,544.	1,221.9	1,189.6

N ₁ 4s	N ₂ 4p _{1/2}	N ₃ 4p _{3/2}
378.6	286.	271.

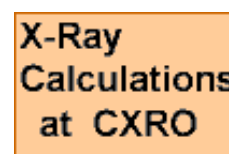
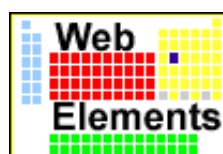
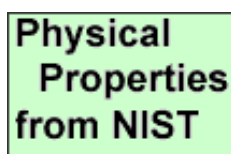
K and L shell emission lines in electron volts

Ka ₁	Ka ₂	Kb ₁	La ₁	La ₂	Lb ₁	Lb ₂	Lg ₁	Ma ₁
42,996.2	42,308.9	48,697.	6,057.2	6,025.0	6,713.2	7,102.8	7,785.8	1,185

Electron Configuration = [Xe]4f⁷5d¹6s²

Oxidation State = **3** Nearest Neighbor = 0.358 nm

Density = 7.90 g/cm³ Concentration = 3.01 x 10²² atoms/cm³



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