

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}
69,525.	12,100.	11,544.	10,207.	2,820.	2,575.	2,281.	1,872.	1,809.

N ₁ 4s	N ₂ 4p _{1/2}	N ₃ 4p _{3/2}
594.1	490.4	423.6

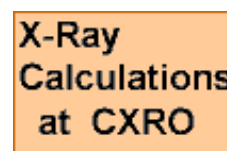
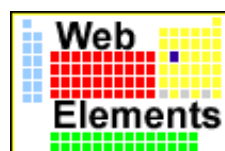
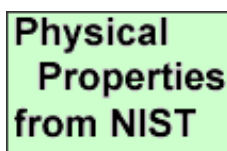
K and L shell emission lines in electron volts

Ka ₁	Ka ₂	Kb ₁	La ₁	La ₂	Lb ₁	Lb ₂	Lg ₁	Ma ₁
59,318.24	57,981.7	67,244.3	8,397.6	8,335.2	9,672.35	9,961.5	11,285.9	1,775.4

Electron Configuration = [Xe]4f¹⁴5d⁴6s²

Oxidation State = 6,5,4,3,2 Nearest Neighbor = 0.274 nm

Density = 19.3 g/cm³ Concentration = 6.31 x 10²² atoms/cm³



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Please send questions or comments to [Al Thompson](#). [©2000](#).