

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}
33,169.	5,188.	4,852.	4,557.	1,072.	931.	875.	630.8	619.3

N ₁ 4s	N ₂ 4p _{1/2}	N ₃ 4p _{3/2}
186.	123.	123.

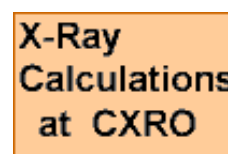
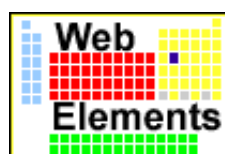
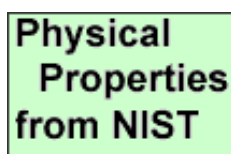
K and L shell emission lines in electron volts

Ka ₁	Ka ₂	Kb ₁	La ₁	La ₂	Lb ₁	Lb ₂	Lg ₁
28,612.0	28,317.2	32,294.7	3,937.65	3,926.04	4,220.72	4,507.5	4,800.9

Electron Configuration = [Kr]4d¹⁰5s² 5p⁵

Oxidation State = ±1,5,7

Density = 4.95 g/cm³ Concentration = 2.35 x 10²² atoms/cm³



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