

First Ionization Energies

(Electron Volts)

13.598																	24.587
●																	●
H																	He
5.392	9.322											8.298	11.260	14.534	13.618	17.422	21.564
●	●											●	●	●	●	●	●
Li	Be											B	C	N	O	F	Ne
5.139	7.646											5.986	8.151	10.486	10.360	12.967	15.759
●	●											●	●	●	●	●	●
Na	Mg											Al	Si	P	S	Cl	Ar
4.341	6.113	6.54	6.82	6.74	6.766	7.435	7.870	7.86	7.635	7.726	9.394	5.999	7.899	9.81	9.752	11.814	13.999
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
4.177	5.695	6.38	6.84	6.88	7.099	7.28	7.37	7.46	8.34	7.576	8.993	5.786	7.344	8.641	9.009	10.451	12.130
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
3.894	5.212	5.426	7.0	7.89	7.98	7.88	8.7	9.1	9.0	9.225	10.437	6.108	7.416	7.289	8.42	9.5	10.748
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cs	Ba	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
4.0	5.279																
●	●																
Fr	Ra	Lr	Rf	Db	Sg	Bh	Hs	Mt	110	111	112						

5.577	5.47	5.42	5.49	5.55	5.63	5.67	6.14	5.85	5.93	6.02	6.10	6.18	6.254
●	●	●	●	●	●	●	●	●	●	●	●	●	●
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb
6.9	6.95		6.08		5.8	6.0							
●	●		●		●	●							
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No

Revised
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