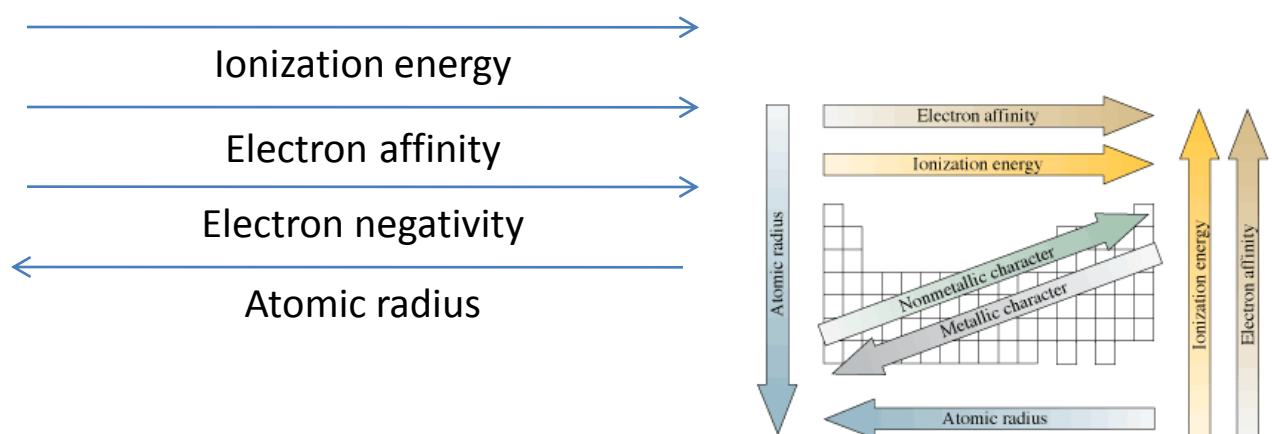


		Atomic number										Symbol																
		Atomic weight																										
1	1											13	14	15	16	17	18											
1	H											B	C	N	O	F	He											
	1.008											10.81	12.01	14.01	16.00	19.00	20.18											
2	Li	Be											Al	Si	P	S	Cl	Ar										
	6.941	9.012											26.98	28.09	30.97	32.07	35.45	39.95										
3	Na	Mg	3	4	5	6	7	8	9	10	11	12	Ga	Ge	As	Se	Br	Kr										
	22.99	24.31											69.72	72.61	74.92	78.96	79.90	83.80										
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	In	Sn	Sb	Te	I	Xe										
	39.10	40.08	44.96	47.88	50.94	52.00	54.94	55.85	58.93	58.69	63.55	65.39	69.72	72.61	74.92	78.96	79.90	83.80										
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	Hg	Tl	Pb	Bi	Po	At	Rn									
	85.47	87.62	88.91	91.22	92.91	95.94	98.91	101.1	102.9	106.4	107.9	112.4	114.8	118.7	121.8	127.6	126.9	131.3										
6	Cs	Ba	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn										
	132.9	137.3	175.0	178.5	180.9	183.8	186.2	190.2	192.2	195.1	197.0	200.6	204.4	207.2	209.0	209.0	210.0	222.0										
7	Fr	Ra	Lr	Rf	Db	Sg	Bh	Hs	Mt	Uun	Uuu	Uub	Uut	Uuq	Uup	Uuh	Uus	Uuo										
	87	88	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118										
	223.0	226.0	262.1	261.1	262.1	263.1	264.1	265.1	268	269	272	277		289		289		293										
			6	7																								
			La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb												
			138.9	140.1	140.9	144.2	146.9	150.4	152.0	157.3	158.9	162.5	164.9	167.3	168.9	173.0												
			Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No												
			227.0	232.0	231.0	238.0	237.0	244.1	243.1	247.1	247.1	251.1	252.0	257.1	258.1	259.1												

(c)1998 Kromer Paul



▲ FIGURE 9-11 Atomic properties and the periodic table—a summary

Atomic radius refers to metallic radius for metals and covalent radius for nonmetals. Ionization energies refer to first ionization energy. For electron affinity, the direction of increasing EA is that in which values become *more negative*. Metallic character relates generally to the ability to lose electrons, and nonmetallic character to the ability to gain electrons.