

(a) Homonuclear: Metalloid

H			
Li	Be	B	C
Na	Mg	Al	Si
K	Ca	Ga	Ge
Rb	Ba	In	Sn
Cs	Sr	Tl	Pb
Fr	Ra		

(b) Heteronuclear: Semiconducting

Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn
Y	Hf	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd
La	Zr	Ta	W	Re	Os	Ir	Pt	Au	Hg

+

			He
N	O	F	Ne
P	S	Cl	Ar
As	Se	Br	Xe
Sb	Te	I	Kr
Bi	Po	At	Rn



Metalloid Clusters



Fullerenes/Nanotubes



Chalcogenide Clusters



Metal Oxide Clusters

e.g. CuSe Cluster Complexes

