

Electron Affinity \rightarrow l. King of e^- Attraction for a -ve nucleus

Ionization Energy \rightarrow E to remove most loosely held valence e^-

As radius increases, IE + EA \downarrow

More P.E.C. \downarrow rad. incr. \rightarrow rad. decr. More \oplus proton - same shielding (P.E.C.)

Oct 30-7:56 AM

Li Be C

less effective shielding by core e^-

Val e^- get pulled in by Nucleus \oplus

Oct 30-8:26 AM

Handwritten orbital diagrams and energy level diagram for elements Li, Be, B, C, N, O, F, Ne.

Energy level diagram (top right):

Orbital diagrams:

- Li: $1s^2 \uparrow$
- Be: $1s^2 \uparrow \downarrow$ ←
- B: $1s^2 p^1 \uparrow \downarrow \uparrow - -$
- C: $1s^2 p^2 \uparrow \downarrow \uparrow \uparrow - -$
- N: $1s^2 p^3 \uparrow \downarrow \uparrow \uparrow -$
- O: $1s^2 p^4 \uparrow \downarrow \uparrow \uparrow \uparrow$ ←
- F: $1s^2 p^5 \uparrow \downarrow \uparrow \uparrow$
- Ne: $1s^2 p^6 \uparrow \downarrow \uparrow \uparrow$

Oct 30-8:37 AM

Blank area for additional work.

Oct 30-8:51 AM