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Worksheet: Periodic Trends

1. ATOMIC RADIUS

For each of the following sets of atoms, rank the atoms from smallest to largest atomic radius.

- a. Li, C, F
- b. Li, Na, K
- c. Ge, P, O
- d. C, N, Al
- e. Al, Cl, Ga

2. IONIC RADIUS

For each of the following sets of ions, rank them from smallest to largest ionic radius.

- a. Mg^{2+} , Si^{4+} , S^{2-}
- b. Mg^{2+} , Ca^{2+} , Ba^{2+}
- c. F^- , Cl^- , Br^-
- d. Ba^{2+} , Cu^{2+} , Zn^{2+}
- e. Si^{4+} , P^{3-} , O^{2-}

3. IONIZATION ENERGY

For each of the following sets of atoms, rank them from lowest to highest ionization energy.

- a. Mg, Si, S
- b. Mg, Ca, Ba
- c. F, Cl, Br
- d. Ba, Cu, Ne
- e. Si, P, He

4. ELECTRONEGATIVITY

For each of the following sets of atoms, rank them from lowest to highest electronegativity.

- a. Li, C, N
- b. C, O, Ne
- c. Si, P, O
- d. K, Mg, P
- e. S, F, He

Periodic Trends Extension Questions Worksheet

Rosina Ehmann



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