

Using Electron Configuration to Explain Trends of the Periodic Table

Element/ion	Electron Configuration	Rank Atomic Radius (pm)	Rank Electro-negativity	Rank Electron Affinity (kJ/mol)	Rank Ionization Energy (kJ/mol)	Justification for Rank
Lithium atom						
Beryllium atom						
Boron atom						
Sodium atom						
Magnesium atom						
Aluminum atom						
Nitrogen atom						
Oxygen atom						
Fluorine atom						
Chlorine atom						
Bromine atom						
Iodine atom						

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Potassium atom						
Potassium ion						
Chlorine atom						
Chloride ion						