

POGIL: Periodic Trends in Atomic Properties

Information

Properties such as the size of an atom (atomic radius), the energy required to remove an electron from an atom (ionization energy), and the energy associated with the addition of an electron to a gaseous atom (electron affinity) can be understood in terms of the electron configuration of the atom and a competition between electron-nucleus attraction and electron-electron repulsion.

Preliminary Activity - Complete the orbital diagrams for the ground state configuration.

	1s	2s	2p		1s	2s	2p
H	<input type="text"/>	<input type="text"/>	<input type="text"/>	C	<input type="text"/>	<input type="text"/>	<input type="text"/>
He	<input type="text"/>	<input type="text"/>	<input type="text"/>	N	<input type="text"/>	<input type="text"/>	<input type="text"/>
Li	<input type="text"/>	<input type="text"/>	<input type="text"/>	O	<input type="text"/>	<input type="text"/>	<input type="text"/>
Be	<input type="text"/>	<input type="text"/>	<input type="text"/>	F	<input type="text"/>	<input type="text"/>	<input type="text"/>
B	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ne	<input type="text"/>	<input type="text"/>	<input type="text"/>

Model 1: Electron Ionization & Capture and Electrostatic Interactions

Reaction Equation for Electron Ionization: $X \rightarrow X^+ + e^-$ $\Delta E = 1^{\text{st}}$ ionization energy

Reaction Equation for Electron Capture: $X + e^- \rightarrow X^-$ $\Delta E = \text{electron affinity}$

Dominant inter-particle forces in helium:



Dominant inter-particle forces in lithium:



Periodic Trends And Atomic Properties Pogil Answers

RM Cervero



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more than one atom this differentiates polyatomic ions from monatomic ions which contain only one atom examples of
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6.6 Polyatomic Ions Chemistry LibreTexts - Dec 31 2022

web Aug 11 2022 to identify and name polyatomic ions some ions consist of groups of atoms covalently bonded together and have an overall electric charge because these ions contain more than one atom they are called polyatomic ions the structures names and formulas of some polyatomic ions are found in the below figure and table

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web the formulae of compounds containing polyatomic ions are worked out in a similar way to single atom ions except when there is more than one polyatomic ion then its formula is written