

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.

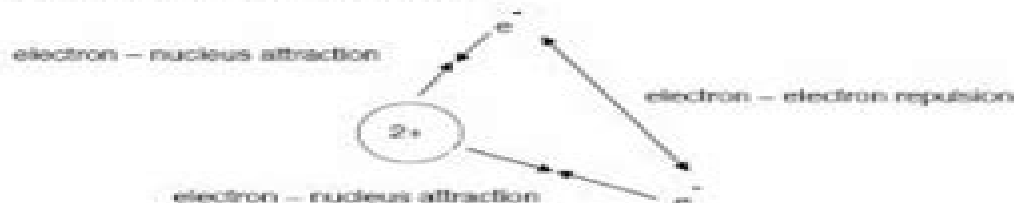
	1s	2s	2p		1s	2s	2p
H				C			
He				N			
Li				O			
Be				F			
B				Ne			

Model 1: Electron Ionization & Capture and Electrostatic Interactions

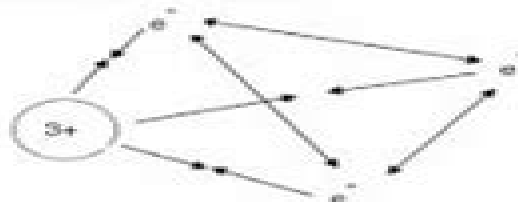
Reaction Equation for Electron Ionization: $X \rightarrow X^+ + e^-$ $\Delta E = 1^{\text{st}}$ ionization energy

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:



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DP Hallahan



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Table of Contents Periodic Trends And Atomic Properties Pogil Name

1. Understanding the eBook Periodic Trends And Atomic Properties Pogil Name
 - The Rise of Digital Reading Periodic Trends And Atomic Properties Pogil Name
 - Advantages of eBooks Over Traditional Books
2. Identifying Periodic Trends And Atomic Properties Pogil Name
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Periodic Trends And Atomic Properties Pogil Name
 - User-Friendly Interface
4. Exploring eBook Recommendations from Periodic Trends And Atomic Properties Pogil Name
 - Personalized Recommendations
 - Periodic Trends And Atomic Properties Pogil Name User Reviews and Ratings
 - Periodic Trends And Atomic Properties Pogil Name and Bestseller Lists
5. Accessing Periodic Trends And Atomic Properties Pogil Name Free and Paid eBooks
 - Periodic Trends And Atomic Properties Pogil Name Public Domain eBooks
 - Periodic Trends And Atomic Properties Pogil Name eBook Subscription Services
 - Periodic Trends And Atomic Properties Pogil Name Budget-Friendly Options
6. Navigating Periodic Trends And Atomic Properties Pogil Name eBook Formats

- ePub, PDF, MOBI, and More
- Periodic Trends And Atomic Properties Pogil Name Compatibility with Devices
- Periodic Trends And Atomic Properties Pogil Name Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Periodic Trends And Atomic Properties Pogil Name
 - Highlighting and Note-Taking Periodic Trends And Atomic Properties Pogil Name
 - Interactive Elements Periodic Trends And Atomic Properties Pogil Name
- 8. Staying Engaged with Periodic Trends And Atomic Properties Pogil Name
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Periodic Trends And Atomic Properties Pogil Name
- 9. Balancing eBooks and Physical Books Periodic Trends And Atomic Properties Pogil Name
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Periodic Trends And Atomic Properties Pogil Name
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Periodic Trends And Atomic Properties Pogil Name
 - Setting Reading Goals Periodic Trends And Atomic Properties Pogil Name
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Periodic Trends And Atomic Properties Pogil Name
 - Fact-Checking eBook Content of Periodic Trends And Atomic Properties Pogil Name
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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