

Photoelectron Spectroscopy (PES) ANSWER KEY

1. In a photoelectron spectrum, photons of 165.7 MJ/mol strike atoms of an unknown element. If the kinetic energy of the ejected electrons is 25.4 MJ/mol, what is the ionization energy of the element?

$$\text{IE} = \text{Energy of Photons} - \text{KE of electrons} = 165.7 \text{ MJ/mol} - 25.4 \text{ MJ/mol} = 140.3 \text{ MJ/mol}$$

2. What determines the position and the height (intensity) of each peak in a photoelectron spectrum?

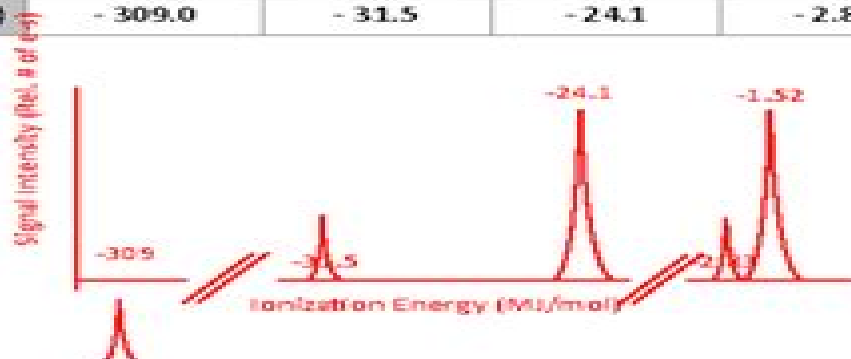
Position = Ionization Energy, height = relative number of electrons

3. Why is the distance of the energy level from the nucleus important in determining the corresponding peak position in the photoelectron spectrum?

When electrons are further from the nucleus, the interactions (Coulombic attractions) between the electrons and nucleus are weaker, so less energy is needed to remove them.

4. Based on the information provided below, draw a photoelectron spectrum for argon. Indicate the relative intensities and positions of all peaks.

e- conf	1s ²	2s ²	2p ⁶	3s ²	3p ⁴
IE (MJ/mol)	-309.0	-31.5	-24.1	-2.83	-1.52



5. Identify the element which produced the photoelectron spectrum shown below. Briefly explain your reasoning. Label each peak with the portion of the electron configuration that it represents.

Photoelectron Spectroscopy Answer Key

Mocktime Publication



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Table of Contents Photoelectron Spectroscopy Answer Key

1. Understanding the eBook Photoelectron Spectroscopy Answer Key
 - The Rise of Digital Reading Photoelectron Spectroscopy Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Photoelectron Spectroscopy Answer Key
 - 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 Photoelectron Spectroscopy Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Photoelectron Spectroscopy Answer Key
 - Personalized Recommendations
 - Photoelectron Spectroscopy Answer Key User Reviews and Ratings
 - Photoelectron Spectroscopy Answer Key and Bestseller Lists

5. Accessing Photoelectron Spectroscopy Answer Key Free and Paid eBooks
 - Photoelectron Spectroscopy Answer Key Public Domain eBooks
 - Photoelectron Spectroscopy Answer Key eBook Subscription Services
 - Photoelectron Spectroscopy Answer Key Budget-Friendly Options
6. Navigating Photoelectron Spectroscopy Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Photoelectron Spectroscopy Answer Key Compatibility with Devices
 - Photoelectron Spectroscopy Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Photoelectron Spectroscopy Answer Key
 - Highlighting and Note-Taking Photoelectron Spectroscopy Answer Key
 - Interactive Elements Photoelectron Spectroscopy Answer Key
8. Staying Engaged with Photoelectron Spectroscopy Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Photoelectron Spectroscopy Answer Key
9. Balancing eBooks and Physical Books Photoelectron Spectroscopy Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Photoelectron Spectroscopy Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Photoelectron Spectroscopy Answer Key
 - Setting Reading Goals Photoelectron Spectroscopy Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Photoelectron Spectroscopy Answer Key
 - Fact-Checking eBook Content of Photoelectron Spectroscopy Answer Key
 - 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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